ANALYTICAL DATA PACKAGE
SDG # KIRTLAND_069

PROJECT NAME: KIRTLAND AFB 2011
PROJECT LOCATION: ALBUQUERQUE, NEW MEXICO

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THIS DOCUMENT MEETS DoD QSM 4.2 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. Sample prep and dilution information is provided within the final results report and at the beginning of each form set. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
Note – Samples 1210292-07 and -09 were analyzed at a 5x due to the samples foaming during screening. No lower analyses were able to be performed.

The following batch spikes exceeded criteria:
2K03002-BSD1 with a negative bias for 2,2-Dichloropropane

The following batch spikes exceeded criteria:
2K09002-MSD1 (1211036-19) with a negative bias for 2,2-Dichloropropane

The following were analyzed after the 12-hour tune criteria:
2K09002-MSD1 was analyzed 12 hours 4 minutes after the associated tune standard

The following continuing calibration verifications exceeded criteria:
2K31008-CCV1 with a negative bias for Acetone, Bromomethane, and 1,1,2,2-Tetrachloroethane and a positive bias for 1,2,4-Trichlorobenzene
2K31009-CCV1 with a negative bias for Acetone, Bromomethane, 2-Chlorotoluene, 2,2-Dichloropropane, and 1,1,2,2-Tetrachloroethane and a positive bias for 1,2,4-Trichlorobenzene
2K31303-CCV1 with a negative bias for Bromomethane, 1,2-Dichlooethane, and 1,1,2,2-Tetrachloroethane and a positive bias for Carbon Disulfide, Dibromochloromethane, 1,1,1,2-Tetrachloreothane, Tetrachloroethene, 1,2,3-Trichlorobenzene, and 1,2,4-Trichlorobenzene
2K31306-CCV1 with a negative bias for Bromomethane and 1,2-Dichloroethane and a positive bias for Hexachlorobutadiene, Isopropylbenzene, Styrene, 1,2,3-Trichlorobenzene, and 1,2,4-Trichlorobenzene
2K31408-CCV1 with a positive bias for n-Butylbenzene, Carbon Disulfide, Hexachlorobutadiene, 1,1,1,2-Tetrachloroethane, Tetrachloroethene, 1,2,3-Trichlorobenzene, and 1,2,4-Trichlorobenzene and with a negative bias for 2-Chlorotoluene, 1,2-Dichloroethane, and 1,1,2,2-Tetrachloroethane

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270D BNA:
The following surrogates exceeded criteria:
2-Fluorobiphenyl with a negative bias in 1210292-07 and 2K07006-MSD1
2-Fluorophenol with a negative bias in 1210292-09 and 2K07006-MSD1
2,4,6-Tribromophenol with a negative bias in 2K07006-MSD1
Note – All surrogates were diluted out in samples 1211036-03 and -13 due to the high dilutions due to the high concentration of Acetophenone

The following batch spikes exceeded criteria:
2K05004-BS1/BSD1 with a positive bias for Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Butylbenzylphthalate, Carbazole, Bis(2-chloroethoxy)methane,

Chrysene, Dibenzofuran, Di-n-butylphthalate, 3,3'-Dichlorobenzidine, Bis(2-ethylhexyl)phthalate, Fluoranthene, Hexachlorobenzene, 4-Nitroaniline, 2-Nitrophenol, and 2-Nitroaniline and exceeded relative percent difference criteria for Benzoic Acid, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, and 4-Nitrophenol

The following matrix spikes exceeded criteria:
2K02001-MS1/MSD1 (1210292-09) with a positive bias for Butylbenzylphthalate and Bis(2-chloroethoxy)methane, with a negative bias for 2,4,6-Trichlorophenol, and exceeded relative percent difference criteria for 2-Chlorophenol, 2,4-Dichlorophenol, 4,6-Dinitro-2-methylphenol, 2-Nitrophenol, Pentachlorophenol, 2,4,5-Trichlorophenol, and 2,4,6-Trichlorophenol
2K07006-MS1/MSD1 (1211036-15) with a negative bias for Acenaphthylene Acenaphthene, Acetophenone, Atrazine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(k)fluoranthene, 1,1-Biphenyl, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 2-Chloronaphthalene, 2-Chlorophenol, 4-Chlorophenyl phenyl ether, Chrysene, Dibenzofuran, Di-n-butylphthalate, 2,4-Dichlorophenol, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 1,2-Diphenylhydrazine, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, 2-Methylnaphthalene, 2-Methylphenol, Naphthalene, 2-Nitroaniline, Nitrobenzene, 2-Nitrophenol, N-nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Pyrene, 2,4,6-Trichlorophenol, and 2,4,5-Trichlorophenol and exceeded relative percent difference criteria for all compounds with the exception of Benzidine, Benzoic Acid, 4-Chloroaniline, 3-Nitroaniline, and 4-Nitrophenol
2K07006-MS2/MSD2 (1211036-19) exceeded relative percent difference criteria for Benzidine and 2-Nitrophenol

The following continuing calibration verifications exceeded criteria:
2K31903-CCV1 with a positive bias for 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, Di-n-octylphthalate, 2-Nitrophenol, and Terphenyl-d14
2K31903-CCV2 with a positive bias for Benzidine, Caprolactam, and 3,3'-Dichlorobenzidine
2K32014-CCV1 with a positive bias for Benzo(b)fluoranthene, 4,6-Dinitro-2-methylphenol, 2-Nitrophenol, and Terphenyl-d14
2K32014-CCV2 with a positive bias for Benzidine, Caprolactam, and 3,3'-Dichlorobenzidine
2K32413-CCV1 with a positive bias for 2-Nitrophenol
2K32413-CCV2 with a positive bias for Benzidine and Caprolactam

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8011:
Note - Surrogate spike is not a method requirement, as such, surrogate limits are advisory. Surrogates were not provided for samples 1211036-03RE2 and -13RE2 due

to the high dilutions necessary to bring 1,2-Dibromoethane into linear range and the surrogate being diluted out.

The following matrix spikes exceeded criteria:
2K07018-MS1 (1210292-09) with a negative bias on both columns for 1,2-Dibromoethane

The following continuing calibration verifications exceeded criteria:
2K31606-CCV2 with a negative bias for 1,3-Dibromopropane on column 2
2K31606-CCV3 with a negative bias for 1,3-Dibromopropane on column 2

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8015B DRO:
The following surrogates exceeded criteria:
o-Terphenyl with a positive bias in 1211036-03RE1 and -13RE1; note – the samples were diluted at 100x

The following matrix spikes exceeded criteria:
2K06015-MS2/MSD2 (1211036-19) exceeded relative percent difference criteria for Diesel Range Organics

The following continuing calibration verifications exceeded criteria:
2K31017-CCV1 with a negative bias for o-Terphenyl
2K31017-CCV2 with a negative bias for o-Terphenyl
2K32408-CCV5 with a negative bias for o-Terphenyl

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8015B GRO:
The following continuing calibration verifications exceeded criteria:
2K31717-CCV1 with a negative bias for Bromofluorobenzene
2K31717-CCV2 with a negative bias for Gasoline Range Organics and Bromofluorobenzene
2K31717-CCV3 with a negative bias for Gasoline Range Organics

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW6010B:
The following matrix spikes exceeded criteria:
2K14014-MSD1 (1211036-15) for Calcium and Sodium; note – the parent sample concentrations for Calcium and Sodium are greater than 4 times the amount spiked

No additional anomalies or deviations are noted.

Wet Chemistry:
The following compounds are qualified with an M to indicate that the LOQ was raised to the level of the reporting limit standard within criteria:
Sulfate as SO4 (2.5 mg/L) in 1210292-01, -03, -05, -07, -09, -11, 1211036-01, -03, -05, -07, -09, -11, -13, -15, -17, -19, and -21

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

DL: The detection limit (DL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The DL is supported by the method detection limit (MDL) which is determined from analysis of a sample containing the analyte in a given matrix.

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.2 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.2 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: Exceeding quality control criteria are associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the LOQ. One should feel confident that the result is greater than zero and less than the LOQ.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters DL/LOD/LOQ have been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard exceeded criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:

The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters

BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, the Data Quality Manager, Technical Directors or Project Managers are authorized to sign this Statement of Data Authenticity.

Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

ORGANIC CALCULATIONS

GC/MS Volatiles

$$\text{Final Concentration} = \frac{\text{On-column(ug/L or ug/Kg) * Expected Vol/Weight (mL or g) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

Note - Expected Vol/Weight value is found in "Final Vol" column of Preparation Batch Summary.

GC/MS Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/uL) * Final Vol (ml) * Dilution *(1000uL/mL)}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/mL) * Final Vol (mL) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

1210292

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW238

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 30 OCT 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306619776

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard ✓ Flammable Skin Irritant Poison B Radiological Unknown

Sample Disposal:
Return to Client Disposal by Lab ✓ Archive (mos.)

1. Relinquished By (Signature/Affiliation) D M R Shaw Date: 10-30-12 Time: 1630
1. Received By (Signature/Affiliation) Date: Time:
2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) jack deculleja Date: 10-31-12 Time: 830

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01 GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		

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Reference Document No: 140705-GW238

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
02	GW0786	KAFB-106035-WG-GW0786-REG	30 OCT 2012	15:41	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
04	GW0787	KAFB-106036-WG-GW0787-REG	30 OCT 2012	13:25	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
06	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0788	KAFB-106037-WG-GW0788-REG	30 OCT 2012	11:05	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
07	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
08	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by			N		

1210292

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW238

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								SW846 6010C					
07	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0848	KAFB-106091-WG-GW0848-REG	29 OCT 2012	16:50	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
09	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
10	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
09	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0849	KAFB-106092-WG-GW0849-REG	29 OCT 2012	14:00	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
10	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
09	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0849-MS	KAFB-106092-WG-GW0849-MS-MS	29 OCT 2012	14:00	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		

1210292

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW238

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
09	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
10	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
09	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0849-MSD	KAFB-106092-WG-GW0849-MSD-MSD	29 OCT 2012	14:00	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
11	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
12	GW0850	KAFB-106093-WG-GW0850-REG	29 OCT 2012	11:17	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		

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Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW238

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0876	KAFB-106205-WG-GW0876-REG	30 OCT 2012	14:42	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0877	KAFB-106206-WG-GW0877-REG	30 OCT 2012	12:04	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW8238-TB	FIELDQC-BW-GW8238-TB-TB	30 OCT 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/31/12 @ 0830 Workorder# 1210292

1. Tracking # 9776 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.3 °C + *correction factor (+ 0.2)* = 3.5 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JD

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO...# —

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/31/12 @ 0830 Workorder# 1210292

1. Tracking # 9787 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.7 °C + *correction factor (+ 0.2)* = 2.9 °C

3. If item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JD

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 2

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO ..# —

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/31/12 @ 0830 Workorder# 1210292

1. Tracking # 9798 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.3 °C + *correction factor (+ 0.2)* = 3.5 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JD

7. Were custody seals on containers: YES NO and intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 3

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO...# —

Additional Details:

Kirtland_069 20

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/31/12 @ 0830 Workorder# 1210292

1. Tracking # 9802 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.1 °C + *correction factor (+ 0.2)* = 1.3 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES (NO)..NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [illegible]

7. Were custody seals on containers: YES (NO) and intact YES...NO...(NA)

   Were these signed and dated correctly? YES...NO...(NA)

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...(NO)..NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...NO...(NA) If multiple coolers, sequence # 4

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) [illegible]

21. Were there Non-Conformance Issues at login? YES (NO) Was a NCR generated? YES (NO)..# —

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/31/12 @ 0830 Workorder# 1210292

1. Tracking # 9813 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.4 °C + *correction factor (+ 0.2)* = 2.6 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JD

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 5

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial)

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO ...#

Additional Details:

Kirtland_060 22

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 10/31/12 @ 0830 Workorder# 1210292

1. Tracking # 9824 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.2 °C + *correction factor (+ 0.2)* = 3.4 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JD

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 6

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO...# —

Additional Details:

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW239

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 01 NOV 2012
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306619835

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard ✓ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ✓ Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] Shaw Date: 11-1-12 Time: 1600hrs
1. Received By (Signature/Affiliation) Date: Time:
2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) [signature] Date: 11-02-12 Time: 815

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01 GW0755	KAFB-106002-WG-GW0755-REG	01 NOV 2012	12:13	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0755	KAFB-106002-WG-GW0755-REG	01 NOV 2012	12:13	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0755	KAFB-106002-WG-GW0755-REG	01 NOV 2012	12:13	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0755	KAFB-106002-WG-GW0755-REG	01 NOV 2012	12:13	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0755	KAFB-106002-WG-GW0755-REG	01 NOV 2012	12:13	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0755	KAFB-106002-WG-GW0755-REG	01 NOV 2012	12:13	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0755	KAFB-106002-WG-GW0755-REG	01 NOV 2012	12:13	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0755	KAFB-106002-WG-GW0755-REG	01 NOV 2012	12:13	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2,			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW239

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								Ammonia by SM4500B					
02	GW0755	KAFB-106002-WG-GW0755-REG	01 NOV 2012	12:13	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
01	GW0755	KAFB-106002-WG-GW0755-REG	01 NOV 2012	12:13	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
03	GW0762	KAFB-106010-WG-GW0762-REG	01 NOV 2012	15:33	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0762	KAFB-106010-WG-GW0762-REG	01 NOV 2012	15:33	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0762	KAFB-106010-WG-GW0762-REG	01 NOV 2012	15:33	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0762	KAFB-106010-WG-GW0762-REG	01 NOV 2012	15:33	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0762	KAFB-106010-WG-GW0762-REG	01 NOV 2012	15:33	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0762	KAFB-106010-WG-GW0762-REG	01 NOV 2012	15:33	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
	GW0762	KAFB-106010-WG-GW0762-REG	01 NOV 2012	15:33	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0762	KAFB-106010-WG-GW0762-REG	01 NOV 2012	15:33	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
03	GW0762	KAFB-106010-WG-GW0762-REG	01 NOV 2012	15:33	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
04	GW0762	KAFB-106010-WG-GW0762-REG	01 NOV 2012	15:33	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0763	KAFB-106011-WG-GW0763-REG	01 NOV 2012	09:34	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0763	KAFB-106011-WG-GW0763-REG	01 NOV 2012	09:34	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0763	KAFB-106011-WG-GW0763-REG	01 NOV 2012	09:34	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0763	KAFB-106011-WG-GW0763-REG	01 NOV 2012	09:34	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0763	KAFB-106011-WG-GW0763-REG	01 NOV 2012	09:34	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
06	GW0763	KAFB-106011-WG-GW0763-REG	01 NOV 2012	09:34	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0763	KAFB-106011-WG-GW0763-REG	01 NOV 2012	09:34	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0763	KAFB-106011-WG-GW0763-REG	01 NOV 2012	09:34	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
	GW0763	KAFB-106011-WG-GW0763-REG	01 NOV 2012	09:34	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0763	KAFB-106011-WG-GW0763-REG	01 NOV 2012	09:34	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
07	GW0802	KAFB-106049-WG-GW0802-REG	31 OCT 2012	15:32	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0802	KAFB-106049-WG-GW0802-REG	31 OCT 2012	15:32	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0802	KAFB-106049-WG-GW0802-REG	31 OCT 2012	15:32	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0802	KAFB-106049-WG-GW0802-REG	31 OCT 2012	15:32	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW239

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
07	GW0802	KAFB-106049-WG-GW0802-REG	31 OCT 2012	15:32	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0802	KAFB-106049-WG-GW0802-REG	31 OCT 2012	15:32	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
08	GW0802	KAFB-106049-WG-GW0802-REG	31 OCT 2012	15:32	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
07	GW0802	KAFB-106049-WG-GW0802-REG	31 OCT 2012	15:32	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0802	KAFB-106049-WG-GW0802-REG	31 OCT 2012	15:32	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0802	KAFB-106049-WG-GW0802-REG	31 OCT 2012	15:32	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
09	GW0803	KAFB-106050-WG-GW0803-REG	31 OCT 2012	13:17	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
10	GW0803	KAFB-106050-WG-GW0803-REG	31 OCT 2012	13:17	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
09	GW0803	KAFB-106050-WG-GW0803-REG	31 OCT 2012	13:17	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0803	KAFB-106050-WG-GW0803-REG	31 OCT 2012	13:17	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0803	KAFB-106050-WG-GW0803-REG	31 OCT 2012	13:17	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0803	KAFB-106050-WG-GW0803-REG	31 OCT 2012	13:17	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0803	KAFB-106050-WG-GW0803-REG	31 OCT 2012	13:17	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0803	KAFB-106050-WG-GW0803-REG	31 OCT 2012	13:17	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0803	KAFB-106050-WG-GW0803-REG	31 OCT 2012	13:17	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0803	KAFB-106050-WG-GW0803-REG	31 OCT 2012	13:17	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
11	GW0804	KAFB-106051-WG-GW0804-REG	31 OCT 2012	10:51	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
12	GW0804	KAFB-106051-WG-GW0804-REG	31 OCT 2012	10:51	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
11	GW0804	KAFB-106051-WG-GW0804-REG	31 OCT 2012	10:51	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0804	KAFB-106051-WG-GW0804-REG	31 OCT 2012	10:51	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0804	KAFB-106051-WG-GW0804-REG	31 OCT 2012	10:51	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0804	KAFB-106051-WG-GW0804-REG	31 OCT 2012	10:51	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0804	KAFB-106051-WG-GW0804-REG	31 OCT 2012	10:51	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0804	KAFB-106051-WG-GW0804-REG	31 OCT 2012	10:51	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0804	KAFB-106051-WG-GW0804-REG	31 OCT 2012	10:51	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0804	KAFB-106051-WG-GW0804-REG	31 OCT 2012	10:51	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW239

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
13	GW0812	KAFB-106059-WG-GW0812-REG	31 OCT 2012	16:27	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
14	GW0812	KAFB-106059-WG-GW0812-REG	31 OCT 2012	16:27	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
13	GW0812	KAFB-106059-WG-GW0812-REG	31 OCT 2012	16:27	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0812	KAFB-106059-WG-GW0812-REG	31 OCT 2012	16:27	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0812	KAFB-106059-WG-GW0812-REG	31 OCT 2012	16:27	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0812	KAFB-106059-WG-GW0812-REG	31 OCT 2012	16:27	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0812	KAFB-106059-WG-GW0812-REG	31 OCT 2012	16:27	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0812	KAFB-106059-WG-GW0812-REG	31 OCT 2012	16:27	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0812	KAFB-106059-WG-GW0812-REG	31 OCT 2012	16:27	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0812	KAFB-106059-WG-GW0812-REG	31 OCT 2012	16:27	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
15	GW0813	KAFB-106060-WG-GW0813-REG	31 OCT 2012	13:44	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
16	GW0813	KAFB-106060-WG-GW0813-REG	31 OCT 2012	13:44	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
15	GW0813	KAFB-106060-WG-GW0813-REG	31 OCT 2012	13:44	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0813	KAFB-106060-WG-GW0813-REG	31 OCT 2012	13:44	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0813	KAFB-106060-WG-GW0813-REG	31 OCT 2012	13:44	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0813	KAFB-106060-WG-GW0813-REG	31 OCT 2012	13:44	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0813	KAFB-106060-WG-GW0813-REG	31 OCT 2012	13:44	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0813	KAFB-106060-WG-GW0813-REG	31 OCT 2012	13:44	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0813	KAFB-106060-WG-GW0813-REG	31 OCT 2012	13:44	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0813	KAFB-106060-WG-GW0813-REG	31 OCT 2012	13:44	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0813-MS	KAFB-106060-WG-GW0813-MS-MS	31 OCT 2012	13:44	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
16	GW0813-MS	KAFB-106060-WG-GW0813-MS-MS	31 OCT 2012	13:44	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
15	GW0813-MS	KAFB-106060-WG-GW0813-MS-MS	31 OCT 2012	13:44	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0813-MS	KAFB-106060-WG-GW0813-MS-MS	31 OCT 2012	13:44	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0813-MS	KAFB-106060-WG-GW0813-MS-MS	31 OCT 2012	13:44	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0813-MS	KAFB-106060-WG-GW0813-MS-MS	31 OCT 2012	13:44	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0813-MS	KAFB-106060-WG-GW0813-MS-MS	31 OCT 2012	13:44	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW239

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
15	GW0813-MS	KAFB-106060-WG-GW0813-MS-MS	31 OCT 2012	13:44	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0813-MS	KAFB-106060-WG-GW0813-MS-MS	31 OCT 2012	13:44	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0813-MS	KAFB-106060-WG-GW0813-MS-MS	31 OCT 2012	13:44	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0813-MSD	KAFB-106060-WG-GW0813-MSD-MSD	31 OCT 2012	13:44	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0813-MSD	KAFB-106060-WG-GW0813-MSD-MSD	31 OCT 2012	13:44	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0813-MSD	KAFB-106060-WG-GW0813-MSD-MSD	31 OCT 2012	13:44	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0813-MSD	KAFB-106060-WG-GW0813-MSD-MSD	31 OCT 2012	13:44	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0813-MSD	KAFB-106060-WG-GW0813-MSD-MSD	31 OCT 2012	13:44	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
16	GW0813-MSD	KAFB-106060-WG-GW0813-MSD-MSD	31 OCT 2012	13:44	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
15	GW0813-MSD	KAFB-106060-WG-GW0813-MSD-MSD	31 OCT 2012	13:44	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0813-MSD	KAFB-106060-WG-GW0813-MSD-MSD	31 OCT 2012	13:44	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0813-MSD	KAFB-106060-WG-GW0813-MSD-MSD	31 OCT 2012	13:44	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0813-MSD	KAFB-106060-WG-GW0813-MSD-MSD	31 OCT 2012	13:44	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
17	GW0814	KAFB-106061-WG-GW0814-REG	31 OCT 2012	11:21	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
18	GW0814	KAFB-106061-WG-GW0814-REG	31 OCT 2012	11:21	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
17	GW0814	KAFB-106061-WG-GW0814-REG	31 OCT 2012	11:21	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0814	KAFB-106061-WG-GW0814-REG	31 OCT 2012	11:21	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0814	KAFB-106061-WG-GW0814-REG	31 OCT 2012	11:21	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0814	KAFB-106061-WG-GW0814-REG	31 OCT 2012	11:21	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0814	KAFB-106061-WG-GW0814-REG	31 OCT 2012	11:21	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0814	KAFB-106061-WG-GW0814-REG	31 OCT 2012	11:21	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0814	KAFB-106061-WG-GW0814-REG	31 OCT 2012	11:21	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0814	KAFB-106061-WG-GW0814-REG	31 OCT 2012	11:21	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
20	GW0832	KAFB-106077-WG-GW0832-REG	01 NOV 2012	13:37	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
19	GW0832	KAFB-106077-WG-GW0832-REG	01 NOV 2012	13:37	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0832	KAFB-106077-WG-GW0832-REG	01 NOV 2012	13:37	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0832	KAFB-106077-WG-GW0832-REG	01 NOV 2012	13:37	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0832	KAFB-106077-WG-GW0832-REG	01 NOV 2012	13:37	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2,			N		

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Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW239

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								Ammonia by SM4500B					
19	GW0832	KAFB-106077-WG-GW0832-REG	01 NOV 2012	13:37	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0832	KAFB-106077-WG-GW0832-REG	01 NOV 2012	13:37	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0832	KAFB-106077-WG-GW0832-REG	01 NOV 2012	13:37	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0832	KAFB-106077-WG-GW0832-REG	01 NOV 2012	13:37	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0832	KAFB-106077-WG-GW0832-REG	01 NOV 2012	13:37	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0832-MS	KAFB-106077-WG-GW0832-MS-MS	01 NOV 2012	13:37	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0832-MS	KAFB-106077-WG-GW0832-MS-MS	01 NOV 2012	13:37	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0832-MS	KAFB-106077-WG-GW0832-MS-MS	01 NOV 2012	13:37	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0832-MS	KAFB-106077-WG-GW0832-MS-MS	01 NOV 2012	13:37	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0832-MS	KAFB-106077-WG-GW0832-MS-MS	01 NOV 2012	13:37	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
20	GW0832-MS	KAFB-106077-WG-GW0832-MS-MS	01 NOV 2012	13:37	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
19	GW0832-MS	KAFB-106077-WG-GW0832-MS-MS	01 NOV 2012	13:37	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0832-MS	KAFB-106077-WG-GW0832-MS-MS	01 NOV 2012	13:37	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0832-MS	KAFB-106077-WG-GW0832-MS-MS	01 NOV 2012	13:37	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0832-MS	KAFB-106077-WG-GW0832-MS-MS	01 NOV 2012	13:37	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0832-MSD	KAFB-106077-WG-GW0832-MSD-MSD	01 NOV 2012	13:37	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
20	GW0832-MSD	KAFB-106077-WG-GW0832-MSD-MSD	01 NOV 2012	13:37	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
19	GW0832-MSD	KAFB-106077-WG-GW0832-MSD-MSD	01 NOV 2012	13:37	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0832-MSD	KAFB-106077-WG-GW0832-MSD-MSD	01 NOV 2012	13:37	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0832-MSD	KAFB-106077-WG-GW0832-MSD-MSD	01 NOV 2012	13:37	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0832-MSD	KAFB-106077-WG-GW0832-MSD-MSD	01 NOV 2012	13:37	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0832-MSD	KAFB-106077-WG-GW0832-MSD-MSD	01 NOV 2012	13:37	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0832-MSD	KAFB-106077-WG-GW0832-MSD-MSD	01 NOV 2012	13:37	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0832-MSD	KAFB-106077-WG-GW0832-MSD-MSD	01 NOV 2012	13:37	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0832-MSD	KAFB-106077-WG-GW0832-MSD-MSD	01 NOV 2012	13:37	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
2	GW0833	KAFB-106078-WG-GW0833-REG	01 NOV 2012	11:17	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		

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Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW239

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
21	GW0833	KAFB-106078-WG-GW0833-REG	01 NOV 2012	11:17	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
↓	GW0833	KAFB-106078-WG-GW0833-REG	01 NOV 2012	11:17	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0833	KAFB-106078-WG-GW0833-REG	01 NOV 2012	11:17	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
22	GW0833	KAFB-106078-WG-GW0833-REG	01 NOV 2012	11:17	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
21	GW0833	KAFB-106078-WG-GW0833-REG	01 NOV 2012	11:17	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
↓	GW0833	KAFB-106078-WG-GW0833-REG	01 NOV 2012	11:17	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0833	KAFB-106078-WG-GW0833-REG	01 NOV 2012	11:17	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0833	KAFB-106078-WG-GW0833-REG	01 NOV 2012	11:17	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0833	KAFB-106078-WG-GW0833-REG	01 NOV 2012	11:17	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
23	GW8060-AB	FIELDQC-BW-GW8060-AB-AB	31 OCT 2012	16:27	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		
24	GW8061-AB	FIELDQC-BW-GW8061-AB-AB	31 OCT 2012	15:32	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		
25	GW8239-TB	FIELDQC-BW-GW8239-TB-TB	31 OCT 2012	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/02/12 @ 0815 Workorder# 1211036

1. Tracking # 9835 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.0 °C + *correction factor (+ 0.2)* = 1.2 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [illegible]

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) [illegible]

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO...# —

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/02/12 @ 0815 Workorder# 1211036

1. Tracking # 9857 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.5 °C + correction factor (+ 0.2) = 1.7 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 2 - FRONT, BACK

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [illegible]

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 2

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO...# ___

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/02/12 @ 0815 Workorder# 1211036

1. Tracking # 9846 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.3 °C + correction factor (+ 0.2) = 1.5 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES (NO)..NA

4. Were custody seals on outside of cooler? (YES)..NO...NA

   If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) BD

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

   Were these signed and dated correctly? YES...NO...(NA)

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13. a. Were VOA vials received? YES..(NO)...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...NO...(NA) If multiple coolers, sequence # 3

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)..NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES..NO...NA

18. Did you sign the custody papers in the appropriate place? YES..NO...NA

19. Were correct containers used for the analysis requested? YES..NO...NA

20. Was sufficient amount of sample sent in each container? YES..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance issues at login? YES (NO) Was a NCR generated? YES (NO)..# —

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/02/12 @ 0815 Workorder# 1211036

1. Tracking # 9868 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.5 °C + *correction factor (+ 0.2)* = 2.7 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JD

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 4

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance Issues at login? YES NO Was a NCR generated? YES NO...# —

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/02/12 @ 0815 Workorder# 1211036

1. Tracking # 9879 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.8 °C + *correction factor (+ 0.2)* = 1.0 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [illegible]

7. Were custody seals on containers: YES NO and intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 5

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) [illegible]

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO...# —

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/02/12 @ 0815 Workorder# 1211036

1. Tracking # 9880 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.7 °C + *correction factor (+ 0.2)* = 2.9 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JD

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 6

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO #_____

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/02/12 @ 0815 Workorder# 1211036

1. Tracking # 9890 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.2 °C + *correction factor (+ 0.2)* = 2.4 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JD

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial)

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO...#

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/02/12 @ 0815 Workorder# 1211036

1. Tracking # 9905 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.3 °C + *correction factor (+ 0.2)* = 2.5 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 - FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JD

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 8

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial)

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO #—

Additional Details:

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 11/02/12 @ 0815 Workorder# 1211036

1. Tracking # 9916 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.2 °C + *correction factor (+ 0.2)* = 3.4 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JD

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13. a. Were VOA vials received? YES...NO...NA

    b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 9

I certify that I unloaded the cooler and answered questions 7-14 (initial) JD

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

    b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JD

I certify that I attached a label with the unique LIMS number to each container (initial) JD

I certify that I have performed a second check of the LIMS information against the COC to confirm accuracy (initial) _____

21. Were there Non-Conformance issues at login? YES NO Was a NCR generated? YES NO...# ___

Additional Details:

WORK ORDER

Printed: 11/1/2012 2:12:44PM

1210292

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
9201 East Dry Creek
Denver, CO 80112
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Due to Client: 11/21/2012 16:00 *This is the projected due date to the client, at the time of receipt, and is for report delivery via upload, and/or email, and/or shipment to meet TAT as setup by project*

Received By: Jack Deville
Date Received: 10/31/2012 08:30
Logged In By: Jack Deville
Date Logged In: 10/31/2012 11:55

Samples Received at: **3.5°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirme	Yes		

Method	Test Code	Due	TAT	Expires	Comments
1210292-01 GW0786 [Water] Sampled 10/30/2012 15:41 Mountain 'Client Sample'					
SM4500S2CF	WC_SULFIDE_4500S2CF	11/16/2012 14:00	15	11/06/2012 16:41	
SW8015B DRO	SGC_DRO_8015B_3510	11/16/2012 14:00	15	11/06/2012 16:41	
SW6010B	MET_ICP_6010B_FULL	11/16/2012 14:00	15	04/28/2013 16:41	Ca, Pb, K, Na, Mg
E353.2	WC_NO3NO2_N_353.2	11/16/2012 14:00	15	11/27/2012 16:41	
E300.0	WC_ANIONS_300.0 (Regular)	11/16/2012 14:00	15	11/27/2012 16:41	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/16/2012 14:00	15	11/27/2012 16:41	
SM2320B	WC_ALKALINITY_2320B	11/16/2012 14:00	15	11/13/2012 16:41	carb/bicarb
SW8260B	VOC_8260B_REG	11/16/2012 14:00	15	11/13/2012 16:41	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	11/16/2012 14:00	15	11/13/2012 16:41	
SW8270D	SMS_BNA_8270D_3510_REG	11/16/2012 14:00	15	11/06/2012 16:41	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	11/16/2012 14:00	15	11/13/2012 16:41	Run dilutions based on 8260 results!
1210292-02 GW0786 [Water] Sampled 10/30/2012 15:41 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/16/2012 14:00	15	04/28/2013 16:41	Fe & Mn

1210292

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Method	Test Code	Due	TAT	Expires	Comments
1210292-03 GW0787 [Water] Sampled 10/30/2012 13:25 Mountain 'Client Sample'					
SM2320B	WC_ALKALINITY_2320B	11/16/2012 14:00	15	11/13/2012 14:25	carb/bicarb
SW8260B	VOC_8260B_REG	11/16/2012 14:00	15	11/13/2012 14:25	naphthalene must be reported
SW8270D	SMS_BNA_8270D_3510_REG	11/16/2012 14:00	15	11/06/2012 14:25	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B DRO	SGC_DRO_8015B_3510	11/16/2012 14:00	15	11/06/2012 14:25	
SW8011	SGC_EDB_8011	11/16/2012 14:00	15	11/13/2012 14:25	Run dilutions based on 8260 results!
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/16/2012 14:00	15	11/27/2012 14:25	
E300.0	WC_ANIONS_300.0 (Regular)	11/16/2012 14:00	15	11/27/2012 14:25	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/16/2012 14:00	15	11/27/2012 14:25	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/16/2012 14:00	15	11/06/2012 14:25	
SW6010B	MET_ICP_6010B_FULL	11/16/2012 14:00	15	04/28/2013 14:25	Ca, Pb, K, Na, Mg
SW8015B GRO	VGC_GRO_8015B	11/16/2012 14:00	15	11/13/2012 14:25	
1210292-04 GW0787 [Water] Sampled 10/30/2012 13:25 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/16/2012 14:00	15	04/28/2013 14:25	Fe & Mn
1210292-05 GW0788 [Water] Sampled 10/30/2012 11:05 Mountain 'Client Sample'					
SW8260B	VOC_8260B_REG	11/16/2012 14:00	15	11/13/2012 12:05	naphthalene must be reported
SM4500S2CF	WC_SULFIDE_4500S2CF	11/16/2012 14:00	15	11/06/2012 12:05	
E353.2	WC_NO3NO2_N_353.2	11/16/2012 14:00	15	11/27/2012 12:05	
E300.0	WC_ANIONS_300.0 (Regular)	11/16/2012 14:00	15	11/27/2012 12:05	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/16/2012 14:00	15	11/27/2012 12:05	
SM2320B	WC_ALKALINITY_2320B	11/16/2012 14:00	15	11/13/2012 12:05	carb/bicarb
SW8270D	SMS_BNA_8270D_3510_REG	11/16/2012 14:00	15	11/06/2012 12:05	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	11/16/2012 14:00	15	11/13/2012 12:05	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	11/16/2012 14:00	15	11/06/2012 12:05	
SW6010B	MET_ICP_6010B_FULL	11/16/2012 14:00	15	04/28/2013 12:05	Ca, Pb, K, Na, Mg
SW8015B GRO	VGC_GRO_8015B	11/16/2012 14:00	15	11/13/2012 12:05	
1210292-06 GW0788 [Water] Sampled 10/30/2012 11:05 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/16/2012 14:00	15	04/28/2013 12:05	Fe & Mn

1210292

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Method	Test Code	Due	TAT	Expires	Comments
1210292-07 GW0848 [Water] Sampled 10/29/2012 16:50 Mountain 'Client Sample'					
SW8270D	SMS_BNA_8270D_3510_REG	11/16/2012 14:00	15	11/05/2012 17:50	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SM4500S2CF	WC_SULFIDE_4500S2CF	11/16/2012 14:00	15	11/05/2012 17:50	
SW6010B	MET_ICP_6010B_FULL	11/16/2012 14:00	15	04/27/2013 17:50	Ca, Pb, K, Na, Mg
SW8015B DRO	SGC_DRO_8015B_3510	11/16/2012 14:00	15	11/05/2012 17:50	
SW8011	SGC_EDB_8011	11/16/2012 14:00	15	11/12/2012 17:50	Run dilutions based on 8260 results!
SW8260B	VOC_8260B_REG	11/16/2012 14:00	15	11/12/2012 17:50	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	11/16/2012 14:00	15	11/12/2012 17:50	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/16/2012 14:00	15	11/26/2012 17:50	
E353.2	WC_NO3NO2_N_353.2	11/16/2012 14:00	15	11/26/2012 17:50	
E300.0	WC_ANIONS_300.0 (Regular)	11/16/2012 14:00	15	11/26/2012 17:50	Cl, SO4
SW8015B GRO	VGC_GRO_8015B	11/16/2012 14:00	15	11/12/2012 17:50	
1210292-08 GW0848 [Water] Sampled 10/29/2012 16:50 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/16/2012 14:00	15	04/27/2013 17:50	Fe & Mn
1210292-09 GW0849 [Water] Sampled 10/29/2012 14:00 Mountain 'Client Sample'					**MS/MSD**
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/16/2012 14:00	15	11/26/2012 15:00	MS/MSD
SM4500S2CF	WC_SULFIDE_4500S2CF	11/16/2012 14:00	15	11/05/2012 15:00	MS/MSD
E300.0	WC_ANIONS_300.0 (Regular)	11/16/2012 14:00	15	11/26/2012 15:00	MS/MSD, Cl, SO4
SM2320B	WC_ALKALINITY_2320B	11/16/2012 14:00	15	11/12/2012 15:00	MS/MSD, carb/bicarb
SW8260B	VOC_8260B_REG	11/16/2012 14:00	15	11/12/2012 15:00	MS/MSD, naphthalene must be reported
SW8270D	SMS_BNA_8270D_3510_REG	11/16/2012 14:00	15	11/05/2012 15:00	MS/MSD, requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	11/16/2012 14:00	15	11/12/2012 15:00	MS/MSD, Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	11/16/2012 14:00	15	11/05/2012 15:00	MS/MSD
SW6010B	MET_ICP_6010B_FULL	11/16/2012 14:00	15	04/27/2013 15:00	MS/MSD, Ca, Pb, K, Na, Mg
SW8015B GRO	VGC_GRO_8015B	11/16/2012 14:00	15	11/12/2012 15:00	MS/MSD
E353.2	WC_NO3NO2_N_353.2	11/16/2012 14:00	15	11/26/2012 15:00	MS/MSD
1210292-10 GW0849 [Water] Sampled 10/29/2012 14:00 Mountain 'Client Sample'					**MS/MSD**
SW6010B	MET_ICP_6010B_FULL_DIS	11/16/2012 14:00	15	04/27/2013 15:00	MS/MSD, Fe & Mn

1210292

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Method	Test Code	Due	TAT	Expires	Comments
1210292-11 GW0850 [Water] Sampled 10/29/2012 11:17 Mountain 'Client Sample'					
SW8015B DRO	SGC_DRO_8015B_3510	11/16/2012 14:00	15	11/05/2012 12:17	
E300.0	WC_ANIONS_300.0 (Regular)	11/16/2012 14:00	15	11/26/2012 12:17	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/16/2012 14:00	15	11/26/2012 12:17	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/16/2012 14:00	15	11/05/2012 12:17	
SM2320B	WC_ALKALINITY_2320B	11/16/2012 14:00	15	11/12/2012 12:17	carb/bicarb
SW8260B	VOC_8260B_REG	11/16/2012 14:00	15	11/12/2012 12:17	naphthalene must be reported
SW8015B GRO	VGC_GRO_8015B	11/16/2012 14:00	15	11/12/2012 12:17	
SW8011	SGC_EDB_8011	11/16/2012 14:00	15	11/12/2012 12:17	Run dilutions based on 8260 results!
SW6010B	MET_ICP_6010B_FULL	11/16/2012 14:00	15	04/27/2013 12:17	Ca, Pb, K, Na, Mg
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/16/2012 14:00	15	11/26/2012 12:17	
SW8270D	SMS_BNA_8270D_3510_REG	11/16/2012 14:00	15	11/05/2012 12:17	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1210292-12 GW0850 [Water] Sampled 10/29/2012 11:17 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/16/2012 14:00	15	04/27/2013 12:17	Fe & Mn

Reviewed By

Date

WORK ORDER

Printed: 11/6/2012 3:14:24PM

1211036

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
9201 East Dry Creek
Denver, CO 80112
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Due to Client: 11/27/2012 16:00 *This is the projected due date to the client, at the time of receipt, and is for report delivery via upload, and/or email, and/or shipment to meet TAT as setup by project*

Received By: Jack Deville
Date Received: 11/02/2012 08:15
Logged In By: Jack Deville
Date Logged In: 11/02/2012 16:56

Samples Received at: **1.2°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirme	Yes		

Method	Test Code	Due	TAT	Expires	Comments
1211036-01 GW0755 [Water] Sampled 11/01/2012 12:13 Mountain 'Client Sample'					
SW8260B	VOC_8260B_REG	11/20/2012 14:00	15	11/15/2012 13:13	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	11/20/2012 14:00	15	11/15/2012 13:13	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/20/2012 14:00	15	11/29/2012 13:13	
E300.0	WC_ANIONS_300.0 (Regular)	11/20/2012 14:00	15	11/29/2012 13:13	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/20/2012 14:00	15	11/29/2012 13:13	
SW6010B	MET_ICP_6010B_FULL	11/20/2012 14:00	15	04/30/2013 13:13	Ca, Pb, K, Na, Mg
SW8015B DRO	SGC_DRO_8015B_3510	11/20/2012 14:00	15	11/08/2012 13:13	
SW8270D	SMS_BNA_8270D_3510_REG	11/20/2012 14:00	15	11/08/2012 13:13	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/20/2012 14:00	15	11/15/2012 13:13	
SW8011	SGC_EDB_8011	11/20/2012 14:00	15	11/15/2012 13:13	Run dilutions based on 8260 results!
SM4500S2CF	WC_SULFIDE_4500S2CF	11/20/2012 14:00	15	11/08/2012 13:13	
1211036-02 GW0755 [Water] Sampled 11/01/2012 12:13 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/20/2012 14:00	15	04/30/2013 13:13	Fe & Mn

1211036

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Method	Test Code	Due	TAT	Expires	Comments
1211036-03 GW0762 [Water] Sampled 11/01/2012 15:33 Mountain 'Client Sample'					
E353.2	WC_NO3NO2_N_353.2	11/20/2012 14:00	15	11/29/2012 16:33	
SW6010B	MET_ICP_6010B_FULL	11/20/2012 14:00	15	04/30/2013 16:33	Ca, Pb, K, Na, Mg
SW8015B DRO	SGC_DRO_8015B_3510	11/20/2012 14:00	15	11/08/2012 16:33	
SM2320B	WC_ALKALINITY_2320B	11/20/2012 14:00	15	11/15/2012 16:33	carb/bicarb
E300.0	WC_ANIONS_300.0 (Regular)	11/20/2012 14:00	15	11/29/2012 16:33	Cl, SO4
SW8260B	VOC_8260B_REG	11/20/2012 14:00	15	11/15/2012 16:33	naphthalene must be reported
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/20/2012 14:00	15	11/29/2012 16:33	
SW8270D	SMS_BNA_8270D_3510_REG	11/20/2012 14:00	15	11/08/2012 16:33	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SM4500S2CF	WC_SULFIDE_4500S2CF	11/20/2012 14:00	15	11/08/2012 16:33	
SW8015B GRO	VGC_GRO_8015B	11/20/2012 14:00	15	11/15/2012 16:33	
SW8011	SGC_EDB_8011	11/20/2012 14:00	15	11/15/2012 16:33	Run dilutions based on 8260 results!
1211036-04 GW0762 [Water] Sampled 11/01/2012 15:33 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/20/2012 14:00	15	04/30/2013 16:33	Fe & Mn
1211036-05 GW0763 [Water] Sampled 11/01/2012 09:34 Mountain 'Client Sample'					
SW8015B DRO	SGC_DRO_8015B_3510	11/20/2012 14:00	15	11/08/2012 10:34	
SW6010B	MET_ICP_6010B_FULL	11/20/2012 14:00	15	04/30/2013 10:34	Ca, Pb, K, Na, Mg
SW8011	SGC_EDB_8011	11/20/2012 14:00	15	11/15/2012 10:34	Run dilutions based on 8260 results!
E300.0	WC_ANIONS_300.0 (Regular)	11/20/2012 14:00	15	11/29/2012 10:34	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/20/2012 14:00	15	11/29/2012 10:34	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/20/2012 14:00	15	11/08/2012 10:34	
SW8015B GRO	VGC_GRO_8015B	11/20/2012 14:00	15	11/15/2012 10:34	
SW8260B	VOC_8260B_REG	11/20/2012 14:00	15	11/15/2012 10:34	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	11/20/2012 14:00	15	11/15/2012 10:34	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/20/2012 14:00	15	11/29/2012 10:34	
SW8270D	SMS_BNA_8270D_3510_REG	11/20/2012 14:00	15	11/08/2012 10:34	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211036-06 GW0763 [Water] Sampled 11/01/2012 09:34 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/20/2012 14:00	15	04/30/2013 10:34	Fe & Mn

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Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Method	Test Code	Due	TAT	Expires	Comments
1211036-07 GW0802 [Water] Sampled 10/31/2012 15:32 Mountain 'Client Sample'					
SM4500S2CF	WC_SULFIDE_4500S2CF	11/20/2012 14:00	15	11/07/2012 16:32	
SW8260B	VOC_8260B_REG	11/20/2012 14:00	15	11/14/2012 16:32	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	11/20/2012 14:00	15	11/14/2012 16:32	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/20/2012 14:00	15	11/28/2012 16:32	
E300.0	WC_ANIONS_300.0 (Regular)	11/20/2012 14:00	15	11/28/2012 16:32	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/20/2012 14:00	15	11/28/2012 16:32	
SW8015B GRO	VGC_GRO_8015B	11/20/2012 14:00	15	11/14/2012 16:32	
SW8270D	SMS_BNA_8270D_3510_REG	11/20/2012 14:00	15	11/07/2012 16:32	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	11/20/2012 14:00	15	11/14/2012 16:32	Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	11/20/2012 14:00	15	11/07/2012 16:32	
SW6010B	MET_ICP_6010B_FULL	11/20/2012 14:00	15	04/29/2013 16:32	Ca, Pb, K, Na, Mg
1211036-08 GW0802 [Water] Sampled 10/31/2012 15:32 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/20/2012 14:00	15	04/29/2013 16:32	Fe & Mn
1211036-09 GW0803 [Water] Sampled 10/31/2012 13:17 Mountain 'Client Sample'					
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/20/2012 14:00	15	11/28/2012 14:17	
SW8270D	SMS_BNA_8270D_3510_REG	11/20/2012 14:00	15	11/07/2012 14:17	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/20/2012 14:00	15	11/14/2012 14:17	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/20/2012 14:00	15	11/07/2012 14:17	
SW8011	SGC_EDB_8011	11/20/2012 14:00	15	11/14/2012 14:17	Run dilutions based on 8260 results!
E300.0	WC_ANIONS_300.0 (Regular)	11/20/2012 14:00	15	11/28/2012 14:17	Cl, SO4
SW8260B	VOC_8260B_REG	11/20/2012 14:00	15	11/14/2012 14:17	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	11/20/2012 14:00	15	11/14/2012 14:17	carb/bicarb
SW8015B DRO	SGC_DRO_8015B_3510	11/20/2012 14:00	15	11/07/2012 14:17	
SW6010B	MET_ICP_6010B_FULL	11/20/2012 14:00	15	04/29/2013 14:17	Ca, Pb, K, Na, Mg
E353.2	WC_NO3NO2_N_353.2	11/20/2012 14:00	15	11/28/2012 14:17	
1211036-10 GW0803 [Water] Sampled 10/31/2012 13:17 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/20/2012 14:00	15	04/29/2013 14:17	Fe & Mn

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Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Method	Test Code	Due	TAT	Expires	Comments
1211036-11 GW0804 [Water] Sampled 10/31/2012 10:51 Mountain 'Client Sample'					
SW8011	SGC_EDB_8011	11/20/2012 14:00	15	11/14/2012 11:51	Run dilutions based on 8260 results!
SM4500S2CF	WC_SULFIDE_4500S2CF	11/20/2012 14:00	15	11/07/2012 11:51	
SW6010B	MET_ICP_6010B_FULL	11/20/2012 14:00	15	04/29/2013 11:51	Ca, Pb, K, Na, Mg
E300.0	WC_ANIONS_300.0 (Regular)	11/20/2012 14:00	15	11/28/2012 11:51	Cl, SO4
SW8260B	VOC_8260B_REG	11/20/2012 14:00	15	11/14/2012 11:51	naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	11/20/2012 14:00	15	11/14/2012 11:51	carb/bicarb
E353.2	WC_NO3NO2_N_353.2	11/20/2012 14:00	15	11/28/2012 11:51	
SW8015B DRO	SGC_DRO_8015B_3510	11/20/2012 14:00	15	11/07/2012 11:51	
SW8270D	SMS_BNA_8270D_3510_REG	11/20/2012 14:00	15	11/07/2012 11:51	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/20/2012 14:00	15	11/14/2012 11:51	
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/20/2012 14:00	15	11/28/2012 11:51	
1211036-12 GW0804 [Water] Sampled 10/31/2012 10:51 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/20/2012 14:00	15	04/29/2013 11:51	Fe & Mn
1211036-13 GW0812 [Water] Sampled 10/31/2012 16:27 Mountain 'Client Sample'					
SW8270D	SMS_BNA_8270D_3510_REG	11/20/2012 14:00	15	11/07/2012 17:27	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8011	SGC_EDB_8011	11/20/2012 14:00	15	11/14/2012 17:27	Run dilutions based on 8260 results!
SW6010B	MET_ICP_6010B_FULL	11/20/2012 14:00	15	04/29/2013 17:27	Ca, Pb, K, Na, Mg
SW8015B GRO	VGC_GRO_8015B	11/20/2012 14:00	15	11/14/2012 17:27	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/20/2012 14:00	15	11/07/2012 17:27	
SW8015B DRO	SGC_DRO_8015B_3510	11/20/2012 14:00	15	11/07/2012 17:27	
SM2320B	WC_ALKALINITY_2320B	11/20/2012 14:00	15	11/14/2012 17:27	carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/20/2012 14:00	15	11/28/2012 17:27	
E300.0	WC_ANIONS_300.0 (Regular)	11/20/2012 14:00	15	11/28/2012 17:27	Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/20/2012 14:00	15	11/28/2012 17:27	
SW8260B	VOC_8260B_REG	11/20/2012 14:00	15	11/14/2012 17:27	naphthalene must be reported
1211036-14 GW0812 [Water] Sampled 10/31/2012 16:27 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/20/2012 14:00	15	04/29/2013 17:27	Fe & Mn

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Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Method	Test Code	Due	TAT	Expires	Comments
1211036-15 GW0813 [Water] Sampled 10/31/2012 13:44 Mountain 'Client Sample'					**MS/MSD**
SM2320B	WC_ALKALINITY_2320B	11/20/2012 14:00	15	11/14/2012 14:44	MS/MSD, carb/bicarb
SW8015B DRO	SGC_DRO_8015B_3510	11/20/2012 14:00	15	11/07/2012 14:44	MS/MSD
SW8011	SGC_EDB_8011	11/20/2012 14:00	15	11/14/2012 14:44	MS/MSD, Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	11/20/2012 14:00	15	11/07/2012 14:44	MS/MSD, requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8260B	VOC_8260B_REG	11/20/2012 14:00	15	11/14/2012 14:44	MS/MSD, naphthalene must be reported
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/20/2012 14:00	15	11/28/2012 14:44	MS/MSD
E300.0	WC_ANIONS_300.0 (Regular)	11/20/2012 14:00	15	11/28/2012 14:44	MS/MSD, Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/20/2012 14:00	15	11/28/2012 14:44	MS/MSD
SM4500S2CF	WC_SULFIDE_4500S2CF	11/20/2012 14:00	15	11/07/2012 14:44	MS/MSD
SW6010B	MET_ICP_6010B_FULL	11/20/2012 14:00	15	04/29/2013 14:44	MS/MSD, Ca, Pb, K, Na, Mg
SW8015B GRO	VGC_GRO_8015B	11/20/2012 14:00	15	11/14/2012 14:44	MS/MSD
1211036-16 GW0813 [Water] Sampled 10/31/2012 13:44 Mountain 'Client Sample'					**MS/MSD**
SW6010B	MET_ICP_6010B_FULL_DIS	11/20/2012 14:00	15	04/29/2013 14:44	MS/MSD, Fe & Mn
1211036-17 GW0814 [Water] Sampled 10/31/2012 11:21 Mountain 'Client Sample'					
SW8260B	VOC_8260B_REG	11/20/2012 14:00	15	11/14/2012 12:21	naphthalene must be reported
SW6010B	MET_ICP_6010B_FULL	11/20/2012 14:00	15	04/29/2013 12:21	Ca, Pb, K, Na, Mg
SM4500S2CF	WC_SULFIDE_4500S2CF	11/20/2012 14:00	15	11/07/2012 12:21	
E353.2	WC_NO3NO2_N_353.2	11/20/2012 14:00	15	11/28/2012 12:21	
E300.0	WC_ANIONS_300.0 (Regular)	11/20/2012 14:00	15	11/28/2012 12:21	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/20/2012 14:00	15	11/28/2012 12:21	
SM2320B	WC_ALKALINITY_2320B	11/20/2012 14:00	15	11/14/2012 12:21	carb/bicarb
SW8015B GRO	VGC_GRO_8015B	11/20/2012 14:00	15	11/14/2012 12:21	
SW8270D	SMS_BNA_8270D_3510_REG	11/20/2012 14:00	15	11/07/2012 12:21	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B DRO	SGC_DRO_8015B_3510	11/20/2012 14:00	15	11/07/2012 12:21	
SW8011	SGC_EDB_8011	11/20/2012 14:00	15	11/14/2012 12:21	Run dilutions based on 8260 results!
1211036-18 GW0814 [Water] Sampled 10/31/2012 11:21 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/20/2012 14:00	15	04/29/2013 12:21	Fe & Mn

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Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Method	Test Code	Due	TAT	Expires	Comments
1211036-19 GW0832 [Water] Sampled 11/01/2012 13:37 Mountain 'Client Sample'					**MS/MSD**
SW8270D	SMS_BNA_8270D_3510_REG	11/20/2012 14:00	15	11/08/2012 14:37	MS/MSD, requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/20/2012 14:00	15	11/15/2012 14:37	MS/MSD
SW8260B	VOC_8260B_REG	11/20/2012 14:00	15	11/15/2012 14:37	MS/MSD, naphthalene must be reported
SM2320B	WC_ALKALINITY_2320B	11/20/2012 14:00	15	11/15/2012 14:37	MS/MSD, carb/bicarb
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/20/2012 14:00	15	11/29/2012 14:37	MS/MSD
E300.0	WC_ANIONS_300.0 (Regular)	11/20/2012 14:00	15	11/29/2012 14:37	MS/MSD, Cl, SO4
E353.2	WC_NO3NO2_N_353.2	11/20/2012 14:00	15	11/29/2012 14:37	MS/MSD
SM4500S2CF	WC_SULFIDE_4500S2CF	11/20/2012 14:00	15	11/08/2012 14:37	MS/MSD
SW8011	SGC_EDB_8011	11/20/2012 14:00	15	11/15/2012 14:37	MS/MSD, Run dilutions based on 8260 results!
SW8015B DRO	SGC_DRO_8015B_3510	11/20/2012 14:00	15	11/08/2012 14:37	MS/MSD
SW6010B	MET_ICP_6010B_FULL	11/20/2012 14:00	15	04/30/2013 14:37	MS/MSD, Ca, Pb, K, Na, Mg
1211036-20 GW0832 [Water] Sampled 10/31/2012 13:37 Mountain 'Client Sample'					**MS/MSD**
SW6010B	MET_ICP_6010B_FULL_DIS	11/20/2012 14:00	15	04/29/2013 14:37	MS/MSD, Fe & Mn
1211036-21 GW0833 [Water] Sampled 11/01/2012 11:17 Mountain 'Client Sample'					
E353.2	WC_NO3NO2_N_353.2	11/20/2012 14:00	15	11/29/2012 12:17	
E300.0	WC_ANIONS_300.0 (Regular)	11/20/2012 14:00	15	11/29/2012 12:17	Cl, SO4
SM4500NH3BG	WC_AMMONIA_PHENATE_4500NH3BG	11/20/2012 14:00	15	11/29/2012 12:17	
SM2320B	WC_ALKALINITY_2320B	11/20/2012 14:00	15	11/15/2012 12:17	carb/bicarb
SW8260B	VOC_8260B_REG	11/20/2012 14:00	15	11/15/2012 12:17	naphthalene must be reported
SW8011	SGC_EDB_8011	11/20/2012 14:00	15	11/15/2012 12:17	Run dilutions based on 8260 results!
SW8270D	SMS_BNA_8270D_3510_REG	11/20/2012 14:00	15	11/08/2012 12:17	requires 3-Methlphenol/4-Methylphenol/Naphthalene
SW8015B GRO	VGC_GRO_8015B	11/20/2012 14:00	15	11/15/2012 12:17	
SM4500S2CF	WC_SULFIDE_4500S2CF	11/20/2012 14:00	15	11/08/2012 12:17	
SW8015B DRO	SGC_DRO_8015B_3510	11/20/2012 14:00	15	11/08/2012 12:17	
SW6010B	MET_ICP_6010B_FULL	11/20/2012 14:00	15	04/30/2013 12:17	Ca, Pb, K, Na, Mg
1211036-22 GW0833 [Water] Sampled 11/01/2012 11:17 Mountain 'Client Sample'					
SW6010B	MET_ICP_6010B_FULL_DIS	11/20/2012 14:00	15	04/30/2013 12:17	Fe & Mn
1211036-23 GW8060-AB [Water] Sampled 10/31/2012 16:27 Mountain 'Ambient Blank'					
SW8260B	VOC_8260B_REG	11/20/2012 14:00	15	11/14/2012 17:27	naphthalene must be reported

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Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Project Manager: Lorraine Noronha
Project Number: SHW_Kirtland

Method	Test Code	Due	TAT	Expires	Comments
1211036-24 GW8061-AB [Water] Sampled 10/31/2012 15:32 Mountain 'Ambient Blank'					
SW8260B	VOC_8260B_REG	11/20/2012 14:00	15	11/14/2012 16:32	naphthalene must be reported
1211036-25 GW8239-TB [Water] Sampled 10/31/2012 08:00 Mountain 'Trip Blank'					
SW8260B	VOC_8260B_REG	11/20/2012 14:00	15	11/14/2012 09:00	naphthalene must be reported

Reviewed By

Date

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: Kirtland_069

QC LEVEL: Level IV
Report Due: 11/21/2012 - 11/27/2012
Client Sample Count: 34

Sample Type	Sampled	Received	Lab ID	Client ID	Report Matrix	E300.0	E353.2	SM2320B	SM4500NH3BG	SM4500S2CF
Client Sample	10/30/2012	10/31/2012	1210292-01	GW0786	Water	X	X	X	X	X
Client Sample	10/30/2012	10/31/2012	1210292-02	GW0786	Water					
Client Sample	10/30/2012	10/31/2012	1210292-03	GW0787	Water	X	X	X	X	X
Client Sample	10/30/2012	10/31/2012	1210292-04	GW0787	Water					
Client Sample	10/30/2012	10/31/2012	1210292-05	GW0788	Water	X	X	X	X	X
Client Sample	10/30/2012	10/31/2012	1210292-06	GW0788	Water					
Client Sample	10/29/2012	10/31/2012	1210292-07	GW0848	Water	X	X	X	X	X
Client Sample	10/29/2012	10/31/2012	1210292-08	GW0848	Water					
Client Sample	10/29/2012	10/31/2012	1210292-09	GW0849	Water	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD
Client Sample	10/29/2012	10/31/2012	1210292-10	GW0849	Water					
Client Sample	10/29/2012	10/31/2012	1210292-11	GW0850	Water	X	X	X	X	X
Client Sample	10/29/2012	10/31/2012	1210292-12	GW0850	Water					
Client Sample	11/1/2012	11/2/2012	1211036-01	GW0755	Water	X	X	X	X	X
Client Sample	11/1/2012	11/2/2012	1211036-02	GW0755	Water					
Client Sample	11/1/2012	11/2/2012	1211036-03	GW0762	Water	X	X	X	X	X
Client Sample	11/1/2012	11/2/2012	1211036-04	GW0762	Water					
Client Sample	11/1/2012	11/2/2012	1211036-05	GW0763	Water	X	X	X	X	X
Client Sample	11/1/2012	11/2/2012	1211036-06	GW0763	Water					
Client Sample	10/31/2012	11/2/2012	1211036-07	GW0802	Water	X	X	X	X	X
Client Sample	10/31/2012	11/2/2012	1211036-08	GW0802	Water					
Client Sample	10/31/2012	11/2/2012	1211036-09	GW0803	Water	X	X	X	X	X
Client Sample	10/31/2012	11/2/2012	1211036-10	GW0803	Water					
Client Sample	10/31/2012	11/2/2012	1211036-11	GW0804	Water	X	X	X	X	X
Client Sample	10/31/2012	11/2/2012	1211036-12	GW0804	Water					
Client Sample	10/31/2012	11/2/2012	1211036-13	GW0812	Water	X	X	X	X	X
Client Sample	10/31/2012	11/2/2012	1211036-14	GW0812	Water					
Client Sample	10/31/2012	11/2/2012	1211036-15	GW0813	Water	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD
Client Sample	10/31/2012	11/2/2012	1211036-16	GW0813	Water					
Client Sample	10/31/2012	11/2/2012	1211036-17	GW0814	Water	X	X	X	X	X
Client Sample	10/31/2012	11/2/2012	1211036-18	GW0814	Water					
Client Sample	11/1/2012	11/2/2012	1211036-19	GW0832	Water	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD
Client Sample	10/31/2012	11/2/2012	1211036-20	GW0832	Water					
Client Sample	11/1/2012	11/2/2012	1211036-21	GW0833	Water	X	X	X	X	X
Client Sample	11/1/2012	11/2/2012	1211036-22	GW0833	Water					
Ambient Blank	10/31/2012	11/2/2012	1211036-23	GW8060-AB	Water					
Ambient Blank	10/31/2012	11/2/2012	1211036-24	GW8061-AB	Water					
Trip Blank	10/31/2012	11/2/2012	1211036-25	GW8239-TB	Water					

Sample Type	Sampled	Received	Lab ID	Client ID	Report Matrix	SW6010B	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270D
Client Sample	10/30/2012	10/31/2012	1210292-01	GW0786	Water	X	X	X	X	X	X
Client Sample	10/30/2012	10/31/2012	1210292-02	GW0786	Water	X					
Client Sample	10/30/2012	10/31/2012	1210292-03	GW0787	Water	X	X	X	X	X	X

Sample Type	Sampled	Received	Lab ID	Client ID	Report Matrix	SW6010B	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270D
Client Sample	10/30/2012	10/31/2012	1210292-04	GW0787	Water	X					
Client Sample	10/30/2012	10/31/2012	1210292-05	GW0788	Water	X	X	X	X	X	X
Client Sample	10/30/2012	10/31/2012	1210292-06	GW0788	Water	X					
Client Sample	10/29/2012	10/31/2012	1210292-07	GW0848	Water	X	X	X	X	X	X
Client Sample	10/29/2012	10/31/2012	1210292-08	GW0848	Water	X					
Client Sample	10/29/2012	10/31/2012	1210292-09	GW0849	Water	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD
Client Sample	10/29/2012	10/31/2012	1210292-10	GW0849	Water	MS/MSD					
Client Sample	10/29/2012	10/31/2012	1210292-11	GW0850	Water	X	X	X	X	X	X
Client Sample	10/29/2012	10/31/2012	1210292-12	GW0850	Water	X					
Client Sample	11/1/2012	11/2/2012	1211036-01	GW0755	Water	X	X	X	X	X	X
Client Sample	11/1/2012	11/2/2012	1211036-02	GW0755	Water	X					
Client Sample	11/1/2012	11/2/2012	1211036-03	GW0762	Water	X	X	X	X	X	X
Client Sample	11/1/2012	11/2/2012	1211036-04	GW0762	Water	X					
Client Sample	11/1/2012	11/2/2012	1211036-05	GW0763	Water	X	X	X	X	X	X
Client Sample	11/1/2012	11/2/2012	1211036-06	GW0763	Water	X					
Client Sample	10/31/2012	11/2/2012	1211036-07	GW0802	Water	X	X	X	X	X	X
Client Sample	10/31/2012	11/2/2012	1211036-08	GW0802	Water	X					
Client Sample	10/31/2012	11/2/2012	1211036-09	GW0803	Water	X	X	X	X	X	X
Client Sample	10/31/2012	11/2/2012	1211036-10	GW0803	Water	X					
Client Sample	10/31/2012	11/2/2012	1211036-11	GW0804	Water	X	X	X	X	X	X
Client Sample	10/31/2012	11/2/2012	1211036-12	GW0804	Water	X					
Client Sample	10/31/2012	11/2/2012	1211036-13	GW0812	Water	X	X	X	X	X	X
Client Sample	10/31/2012	11/2/2012	1211036-14	GW0812	Water	X					
Client Sample	10/31/2012	11/2/2012	1211036-15	GW0813	Water	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD
Client Sample	10/31/2012	11/2/2012	1211036-16	GW0813	Water	MS/MSD					
Client Sample	10/31/2012	11/2/2012	1211036-17	GW0814	Water	X	X	X	X	X	X
Client Sample	10/31/2012	11/2/2012	1211036-18	GW0814	Water	X					
Client Sample	11/1/2012	11/2/2012	1211036-19	GW0832	Water	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD
Client Sample	10/31/2012	11/2/2012	1211036-20	GW0832	Water	MS/MSD					
Client Sample	11/1/2012	11/2/2012	1211036-21	GW0833	Water	X	X	X	X	X	X
Client Sample	11/1/2012	11/2/2012	1211036-22	GW0833	Water	X					
Ambient Blank	10/31/2012	11/2/2012	1211036-23	GW8060-AB	Water					X	
Ambient Blank	10/31/2012	11/2/2012	1211036-24	GW8061-AB	Water					X	
Trip Blank	10/31/2012	11/2/2012	1211036-25	GW8239-TB	Water					X	

Data for SW8260B Forms

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1210292-01 [GW0786]	2K03001	5.00/5.00	5.00	5.00	1.00			11/03/12
1210292-03 [GW0787]	2K03001	5.00/5.00	5.00	5.00	1.00			11/03/12
1210292-05 [GW0788]	2K03001	5.00/5.00	5.00	5.00	1.00			11/03/12
1210292-07 [GW0848]	2K03001	5.00/5.00	5.00	5.00	5.00			11/03/12
1210292-09 [GW0849]	2K03001	5.00/5.00	5.00	5.00	5.00			11/03/12
1210292-11 [GW0850]	2K03001	5.00/5.00	5.00	5.00	1.00			11/03/12

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-23 [GW8060-AB]	2K03002	5.00/5.00	5.00	5.00	1.00			11/04/12
1211036-24 [GW8061-AB]	2K03002	5.00/5.00	5.00	5.00	1.00			11/04/12
1211036-25 [GW8239-TB]	2K03002	5.00/5.00	5.00	5.00	1.00			11/04/12

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-01 [GW0755]	2K07005	5.00/5.00	5.00	5.00	1.00			11/07/12
1211036-03 [GW0762]	2K07005	5.00/5.00	5.00	5.00	100.00			11/07/12
1211036-05 [GW0763]	2K07005	5.00/5.00	5.00	5.00	1.00			11/07/12
1211036-07 [GW0802]	2K07005	5.00/5.00	5.00	5.00	1.00			11/07/12
1211036-09 [GW0803]	2K07005	5.00/5.00	5.00	5.00	1.00			11/07/12
1211036-11 [GW0804]	2K07005	5.00/5.00	5.00	5.00	1.00			11/07/12
1211036-13 [GW0812]	2K07005	5.00/5.00	5.00	5.00	100.00			11/07/12
1211036-17 [GW0814]	2K07005	5.00/5.00	5.00	5.00	1.00			11/07/12
1211036-21 [GW0833]	2K07005	5.00/5.00	5.00	5.00	1.00			11/07/12

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-15 [GW0813]	2K08002	5.00/5.00	5.00	5.00	1.00			11/08/12

Sample Extraction Data

Prep Method: 5030B-SW8260B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-19 [GW0832]	2K09002	5.00/5.00	5.00	5.00	1.00			11/09/12

ANALYSIS DATA SHEET

GW0786

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-01	File ID:	1029201.D
Sampled:	10/30/12 15:41	Prepared:	11/03/12 10:21	Analyzed:	11/03/12 10:21
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	UY
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0786

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-01	File ID:	1029201.D
Sampled:	10/30/12 15:41	Prepared:	11/03/12 10:21	Analyzed:	11/03/12 10:21
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	27.85	92.8	75 - 120	
Dibromofluoromethane	30.00	29.54	98.5	85 - 115	
1,2-Dichloroethane-d4	30.00	32.06	107	70 - 120	
Toluene-d8	30.00	28.92	96.4	85 - 120	

ANALYSIS DATA SHEET

GW0787

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-03	File ID:	1029203.D
Sampled:	10/30/12 13:25	Prepared:	11/03/12 10:49	Analyzed:	11/03/12 10:49
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	UY
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)	**0.390**	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0787

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-03	File ID:	1029203.D
Sampled:	10/30/12 13:25	Prepared:	11/03/12 10:49	Analyzed:	11/03/12 10:49
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.87	96.2	75 - 120	
Dibromofluoromethane	30.00	30.47	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.18	101	70 - 120	
Toluene-d8	30.00	30.31	101	85 - 120	

ANALYSIS DATA SHEET

GW0788

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-05	File ID:	1029205.D
Sampled:	10/30/12 11:05	Prepared:	11/03/12 11:17	Analyzed:	11/03/12 11:17
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	UY
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)	**0.300**	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0788

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-05	File ID:	1029205.D
Sampled:	10/30/12 11:05	Prepared:	11/03/12 11:17	Analyzed:	11/03/12 11:17
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.66	95.5	75 - 120	
Dibromofluoromethane	30.00	29.60	98.7	85 - 115	
1,2-Dichloroethane-d4	30.00	30.66	102	70 - 120	
Toluene-d8	30.00	29.68	98.9	85 - 120	

ANALYSIS DATA SHEET

GW0848

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-07	File ID:	1029207D.D
Sampled:	10/29/12 16:50	Prepared:	11/03/12 16:23	Analyzed:	11/03/12 16:23
Solids:		Preparation:	5030B	Dilution:	5

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		12.5	25.0	50.0	UY
71-43-2	Benzene		1.25	2.50	5.00	U
108-86-1	Bromobenzene		1.25	2.50	5.00	U
74-97-5	Bromochloromethane		1.25	2.50	5.00	U
75-27-4	Bromodichloromethane		1.25	2.50	5.00	U
75-25-2	Bromoform		1.25	2.50	5.00	U
74-83-9	Bromomethane		2.50	5.00	10.0	UY
104-51-8	n-Butylbenzene		1.25	2.50	5.00	U
78-93-3	2-Butanone		12.5	25.0	50.0	U
135-98-8	sec-Butylbenzene		1.25	2.50	5.00	U
98-06-6	tert-Butylbenzene		1.25	2.50	5.00	U
75-15-0	Carbon disulfide		1.25	2.50	5.00	U
56-23-5	Carbon tetrachloride		1.25	2.50	5.00	U
108-90-7	Chlorobenzene		1.25	2.50	5.00	U
75-00-3	Chloroethane		2.50	5.00	10.0	U
67-66-3	Chloroform		1.25	2.50	5.00	U
74-87-3	Chloromethane		1.25	2.50	5.00	U
95-49-8	2-Chlorotoluene		1.25	2.50	5.00	U
106-43-4	4-Chlorotoluene		1.25	2.50	5.00	U
124-48-1	Dibromochloromethane		1.25	2.50	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane		2.50	5.00	10.0	U
106-93-4	1,2-Dibromoethane (EDB)		1.25	2.50	5.00	U
74-95-3	Dibromomethane		1.25	2.50	5.00	U
95-50-1	1,2-Dichlorobenzene		1.25	2.50	5.00	U
541-73-1	1,3-Dichlorobenzene		1.25	2.50	5.00	U
106-46-7	1,4-Dichlorobenzene		1.25	2.50	5.00	U
75-71-8	Dichlorodifluoromethane		2.50	5.00	10.0	U
75-34-3	1,1-Dichloroethane		1.25	2.50	5.00	U
107-06-2	1,2-Dichloroethane		1.25	2.50	5.00	U
75-35-4	1,1-Dichloroethene		1.25	2.50	5.00	U
156-59-2	cis-1,2-Dichloroethene		1.25	2.50	5.00	U
156-60-5	trans-1,2-Dichloroethene		1.25	2.50	5.00	U
78-87-5	1,2-Dichloropropane		1.25	2.50	5.00	U
142-28-9	1,3-Dichloropropane		1.25	2.50	5.00	U
594-20-7	2,2-Dichloropropane		1.25	2.50	5.00	U
563-58-6	1,1-Dichloropropene		1.25	2.50	5.00	U
10061-01-5	cis-1,3-Dichloropropene		1.25	2.50	5.00	U
10061-02-6	trans-1,3-Dichloropropene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	10.0	U

ANALYSIS DATA SHEET

GW0848

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-07	File ID:	1029207D.D
Sampled:	10/29/12 16:50	Prepared:	11/03/12 16:23	Analyzed:	11/03/12 16:23
Solids:		Preparation:	5030B	Dilution:	5

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		6.25	12.5	25.0	U
98-82-8	Isopropylbenzene		1.25	2.50	5.00	U
99-87-6	p-Isopropyltoluene		1.25	2.50	5.00	U
75-09-2	Methylene chloride		2.50	5.00	10.0	U
91-20-3	Naphthalene	**2.50**	1.25	2.50	10.0	JD
108-10-1	4-Methyl-2-pentanone		6.25	12.5	25.0	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
103-65-1	n-Propylbenzene		1.25	2.50	5.00	U
100-42-5	Styrene		1.25	2.50	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane		1.25	2.50	5.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		1.25	2.50	5.00	U
127-18-4	Tetrachloroethene		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
87-61-6	1,2,3-Trichlorobenzene		1.25	2.50	10.0	U
120-82-1	1,2,4-Trichlorobenzene		1.25	2.50	10.0	UX
79-00-5	1,1,2-Trichloroethane		1.25	2.50	5.00	U
71-55-6	1,1,1-Trichloroethane		1.25	2.50	5.00	U
79-01-6	Trichloroethene		1.25	2.50	5.00	U
75-69-4	Trichlorofluoromethane		2.50	5.00	10.0	U
96-18-4	1,2,3-Trichloropropane		2.50	5.00	10.0	U
108-67-8	1,3,5-Trimethylbenzene		1.25	2.50	5.00	U
95-63-6	1,2,4-Trimethylbenzene		1.25	2.50	5.00	U
75-01-4	Vinyl chloride		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)		3.75	7.50	15.0	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.96	99.9	75 - 120	
Dibromofluoromethane	30.00	29.44	98.1	85 - 115	
1,2-Dichloroethane-d4	30.00	30.09	100	70 - 120	
Toluene-d8	30.00	30.42	101	85 - 120	

ANALYSIS DATA SHEET

GW0849

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-09	File ID:	1029209D.D
Sampled:	10/29/12 14:00	Prepared:	11/03/12 16:50	Analyzed:	11/03/12 16:50
Solids:		Preparation:	5030B	Dilution:	5

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**12.6**	12.5	25.0	50.0	YJD
71-43-2	Benzene		1.25	2.50	5.00	U
108-86-1	Bromobenzene		1.25	2.50	5.00	U
74-97-5	Bromochloromethane		1.25	2.50	5.00	U
75-27-4	Bromodichloromethane		1.25	2.50	5.00	U
75-25-2	Bromoform		1.25	2.50	5.00	U
74-83-9	Bromomethane		2.50	5.00	10.0	UY
104-51-8	n-Butylbenzene		1.25	2.50	5.00	U
78-93-3	2-Butanone		12.5	25.0	50.0	U
135-98-8	sec-Butylbenzene		1.25	2.50	5.00	U
98-06-6	tert-Butylbenzene		1.25	2.50	5.00	U
75-15-0	Carbon disulfide		1.25	2.50	5.00	U
56-23-5	Carbon tetrachloride		1.25	2.50	5.00	U
108-90-7	Chlorobenzene		1.25	2.50	5.00	U
75-00-3	Chloroethane		2.50	5.00	10.0	U
67-66-3	Chloroform		1.25	2.50	5.00	U
74-87-3	Chloromethane		1.25	2.50	5.00	U
95-49-8	2-Chlorotoluene		1.25	2.50	5.00	U
106-43-4	4-Chlorotoluene		1.25	2.50	5.00	U
124-48-1	Dibromochloromethane		1.25	2.50	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane		2.50	5.00	10.0	U
106-93-4	1,2-Dibromoethane (EDB)		1.25	2.50	5.00	U
74-95-3	Dibromomethane		1.25	2.50	5.00	U
95-50-1	1,2-Dichlorobenzene		1.25	2.50	5.00	U
541-73-1	1,3-Dichlorobenzene		1.25	2.50	5.00	U
106-46-7	1,4-Dichlorobenzene		1.25	2.50	5.00	U
75-71-8	Dichlorodifluoromethane		2.50	5.00	10.0	U
75-34-3	1,1-Dichloroethane		1.25	2.50	5.00	U
107-06-2	1,2-Dichloroethane		1.25	2.50	5.00	U
75-35-4	1,1-Dichloroethene		1.25	2.50	5.00	U
156-59-2	cis-1,2-Dichloroethene		1.25	2.50	5.00	U
156-60-5	trans-1,2-Dichloroethene		1.25	2.50	5.00	U
78-87-5	1,2-Dichloropropane		1.25	2.50	5.00	U
142-28-9	1,3-Dichloropropane		1.25	2.50	5.00	U
594-20-7	2,2-Dichloropropane		1.25	2.50	5.00	U
563-58-6	1,1-Dichloropropene		1.25	2.50	5.00	U
10061-01-5	cis-1,3-Dichloropropene		1.25	2.50	5.00	U
10061-02-6	trans-1,3-Dichloropropene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	10.0	U

ANALYSIS DATA SHEET

GW0849

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-09	File ID:	1029209D.D
Sampled:	10/29/12 14:00	Prepared:	11/03/12 16:50	Analyzed:	11/03/12 16:50
Solids:		Preparation:	5030B	Dilution:	5

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		6.25	12.5	25.0	U
98-82-8	Isopropylbenzene	**2.85**	1.25	2.50	5.00	JD
99-87-6	p-Isopropyltoluene		1.25	2.50	5.00	U
75-09-2	Methylene chloride		2.50	5.00	10.0	U
91-20-3	Naphthalene		1.25	2.50	10.0	U
108-10-1	4-Methyl-2-pentanone		6.25	12.5	25.0	U
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
103-65-1	n-Propylbenzene		1.25	2.50	5.00	U
100-42-5	Styrene		1.25	2.50	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane		1.25	2.50	5.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		1.25	2.50	5.00	U
127-18-4	Tetrachloroethene		1.25	2.50	5.00	U
108-88-3	Toluene		1.25	2.50	5.00	U
87-61-6	1,2,3-Trichlorobenzene		1.25	2.50	10.0	U
120-82-1	1,2,4-Trichlorobenzene		1.25	2.50	10.0	UX
79-00-5	1,1,2-Trichloroethane		1.25	2.50	5.00	U
71-55-6	1,1,1-Trichloroethane		1.25	2.50	5.00	U
79-01-6	Trichloroethene		1.25	2.50	5.00	U
75-69-4	Trichlorofluoromethane		2.50	5.00	10.0	U
96-18-4	1,2,3-Trichloropropane		2.50	5.00	10.0	U
108-67-8	1,3,5-Trimethylbenzene		1.25	2.50	5.00	U
95-63-6	1,2,4-Trimethylbenzene		1.25	2.50	5.00	U
75-01-4	Vinyl chloride		1.25	2.50	5.00	U
1330-20-7	Xylenes (total)		3.75	7.50	15.0	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.52	98.4	75 - 120	
Dibromofluoromethane	30.00	29.93	99.8	85 - 115	
1,2-Dichloroethane-d4	30.00	30.91	103	70 - 120	
Toluene-d8	30.00	29.84	99.5	85 - 120	

ANALYSIS DATA SHEET

GW0850

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-11	File ID:	1029211.D
Sampled:	10/29/12 11:17	Prepared:	11/03/12 11:45	Analyzed:	11/03/12 11:45
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	UY
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0850

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-11	File ID:	1029211.D
Sampled:	10/29/12 11:17	Prepared:	11/03/12 11:45	Analyzed:	11/03/12 11:45
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.41	94.7	75 - 120	
Dibromofluoromethane	30.00	30.21	101	85 - 115	
1,2-Dichloroethane-d4	30.00	31.08	104	70 - 120	
Toluene-d8	30.00	29.52	98.4	85 - 120	

ANALYSIS DATA SHEET

GW0755

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-01	File ID:	1103601.D
Sampled:	11/01/12 12:13	Prepared:	11/07/12 12:35	Analyzed:	11/07/12 12:35
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	UX
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0755

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-01	File ID:	1103601.D
Sampled:	11/01/12 12:13	Prepared:	11/07/12 12:35	Analyzed:	11/07/12 12:35
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.81	96.0	75 - 120	
Dibromofluoromethane	30.00	28.91	96.4	85 - 115	
1,2-Dichloroethane-d4	30.00	30.05	100	70 - 120	
Toluene-d8	30.00	28.39	94.6	85 - 120	

ANALYSIS DATA SHEET

GW0762

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-03	File ID:	1103603D.D
Sampled:	11/01/12 15:33	Prepared:	11/07/12 16:52	Analyzed:	11/07/12 16:52
Solids:		Preparation:	5030B	Dilution:	100

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**1500**	250	500	1000	D
71-43-2	Benzene	**6910**	25.0	50.0	100	D
108-86-1	Bromobenzene		25.0	50.0	100	U
74-97-5	Bromochloromethane		25.0	50.0	100	U
75-27-4	Bromodichloromethane		25.0	50.0	100	U
75-25-2	Bromoform		25.0	50.0	100	U
74-83-9	Bromomethane		50.0	100	200	UY
104-51-8	n-Butylbenzene		25.0	50.0	100	U
78-93-3	2-Butanone	**605**	250	500	1000	JD
135-98-8	sec-Butylbenzene		25.0	50.0	100	U
98-06-6	tert-Butylbenzene		25.0	50.0	100	U
75-15-0	Carbon disulfide		25.0	50.0	100	UX
56-23-5	Carbon tetrachloride		25.0	50.0	100	U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	U
95-49-8	2-Chlorotoluene		25.0	50.0	100	U
106-43-4	4-Chlorotoluene		25.0	50.0	100	U
124-48-1	Dibromochloromethane		25.0	50.0	100	UX
96-12-8	1,2-Dibromo-3-chloropropane		50.0	100	200	U
106-93-4	1,2-Dibromoethane (EDB)	**121**	25.0	50.0	100	D
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene		25.0	50.0	100	U
75-71-8	Dichlorodifluoromethane		50.0	100	200	U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	UY
75-35-4	1,1-Dichloroethene		25.0	50.0	100	U
156-59-2	cis-1,2-Dichloroethene		25.0	50.0	100	U
156-60-5	trans-1,2-Dichloroethene		25.0	50.0	100	U
78-87-5	1,2-Dichloropropane		25.0	50.0	100	U
142-28-9	1,3-Dichloropropane		25.0	50.0	100	U
594-20-7	2,2-Dichloropropane		25.0	50.0	100	U
563-58-6	1,1-Dichloropropene		25.0	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene		25.0	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene		25.0	50.0	100	U
100-41-4	Ethylbenzene	**1640**	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	200	U

ANALYSIS DATA SHEET

GW0762

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-03	File ID:	1103603D.D
Sampled:	11/01/12 15:33	Prepared:	11/07/12 16:52	Analyzed:	11/07/12 16:52
Solids:		Preparation:	5030B	Dilution:	100

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		125	250	500	U
98-82-8	Isopropylbenzene	**135**	25.0	50.0	100	D
99-87-6	p-Isopropyltoluene	**211**	25.0	50.0	100	D
75-09-2	Methylene chloride		50.0	100	200	U
91-20-3	Naphthalene	**170**	25.0	50.0	200	JD
108-10-1	4-Methyl-2-pentanone		125	250	500	U
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	**127**	25.0	50.0	100	D
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	UY
630-20-6	1,1,1,2-Tetrachloroethane		25.0	50.0	100	UX
127-18-4	Tetrachloroethene		25.0	50.0	100	UX
108-88-3	Toluene	**11300**	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	200	UX
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	200	UX
79-00-5	1,1,2-Trichloroethane		25.0	50.0	100	U
71-55-6	1,1,1-Trichloroethane		25.0	50.0	100	U
79-01-6	Trichloroethene		25.0	50.0	100	U
75-69-4	Trichlorofluoromethane		50.0	100	200	U
96-18-4	1,2,3-Trichloropropane		50.0	100	200	U
108-67-8	1,3,5-Trimethylbenzene	**130**	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	**429**	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	U
1330-20-7	Xylenes (total)	**3000**	75.0	150	300	D

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.90	96.3	75 - 120	
Dibromofluoromethane	30.00	28.52	95.1	85 - 115	
1,2-Dichloroethane-d4	30.00	31.01	103	70 - 120	
Toluene-d8	30.00	28.91	96.4	85 - 120	

ANALYSIS DATA SHEET

GW0763

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-05	File ID:	1103605.D
Sampled:	11/01/12 09:34	Prepared:	11/07/12 13:03	Analyzed:	11/07/12 13:03
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene	**0.700**	0.250	0.500	1.00	J
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene	**0.920**	0.250	0.500	1.00	J
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	UX
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0763

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-05	File ID:	1103605.D
Sampled:	11/01/12 09:34	Prepared:	11/07/12 13:03	Analyzed:	11/07/12 13:03
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	**4.41**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**0.690**	0.250	0.500	1.00	J
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene	**0.330**	0.250	0.500	1.00	J
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	**5.64**	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.44	98.1	75 - 120	
Dibromofluoromethane	30.00	28.09	93.6	85 - 115	
1,2-Dichloroethane-d4	30.00	30.87	103	70 - 120	
Toluene-d8	30.00	30.73	102	85 - 120	

ANALYSIS DATA SHEET

GW0802

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-07	File ID:	1103607.D
Sampled:	10/31/12 15:32	Prepared:	11/07/12 13:31	Analyzed:	11/07/12 13:31
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	UX
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0802

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-07	File ID:	1103607.D
Sampled:	10/31/12 15:32	Prepared:	11/07/12 13:31	Analyzed:	11/07/12 13:31
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.30	97.7	75 - 120	
Dibromofluoromethane	30.00	28.00	93.3	85 - 115	
1,2-Dichloroethane-d4	30.00	30.85	103	70 - 120	
Toluene-d8	30.00	30.55	102	85 - 120	

ANALYSIS DATA SHEET

GW0803

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-09	File ID:	1103609.D
Sampled:	10/31/12 13:17	Prepared:	11/07/12 13:59	Analyzed:	11/07/12 13:59
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	UX
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0803

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-09	File ID:	1103609.D
Sampled:	10/31/12 13:17	Prepared:	11/07/12 13:59	Analyzed:	11/07/12 13:59
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.77	95.9	75 - 120	
Dibromofluoromethane	30.00	27.94	93.1	85 - 115	
1,2-Dichloroethane-d4	30.00	29.59	98.6	70 - 120	
Toluene-d8	30.00	30.19	101	85 - 120	

ANALYSIS DATA SHEET

GW0804

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-11	File ID:	1103611.D
Sampled:	10/31/12 10:51	Prepared:	11/07/12 14:26	Analyzed:	11/07/12 14:26
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	UX
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0804

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-11	File ID:	1103611.D
Sampled:	10/31/12 10:51	Prepared:	11/07/12 14:26	Analyzed:	11/07/12 14:26
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.68	95.6	75 - 120	
Dibromofluoromethane	30.00	28.24	94.1	85 - 115	
1,2-Dichloroethane-d4	30.00	29.74	99.1	70 - 120	
Toluene-d8	30.00	29.77	99.2	85 - 120	

ANALYSIS DATA SHEET

GW0812

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-13	File ID:	1103613D.D
Sampled:	10/31/12 16:27	Prepared:	11/07/12 17:20	Analyzed:	11/07/12 17:20
Solids:		Preparation:	5030B	Dilution:	100

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**820**	250	500	1000	JD
71-43-2	Benzene	**8640**	25.0	50.0	100	D
108-86-1	Bromobenzene		25.0	50.0	100	U
74-97-5	Bromochloromethane		25.0	50.0	100	U
75-27-4	Bromodichloromethane		25.0	50.0	100	U
75-25-2	Bromoform		25.0	50.0	100	U
74-83-9	Bromomethane		50.0	100	200	UY
104-51-8	n-Butylbenzene		25.0	50.0	100	U
78-93-3	2-Butanone		250	500	1000	U
135-98-8	sec-Butylbenzene		25.0	50.0	100	U
98-06-6	tert-Butylbenzene		25.0	50.0	100	U
75-15-0	Carbon disulfide	**64.0**	25.0	50.0	100	XJD
56-23-5	Carbon tetrachloride		25.0	50.0	100	U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	U
95-49-8	2-Chlorotoluene		25.0	50.0	100	U
106-43-4	4-Chlorotoluene		25.0	50.0	100	U
124-48-1	Dibromochloromethane		25.0	50.0	100	UX
96-12-8	1,2-Dibromo-3-chloropropane		50.0	100	200	U
106-93-4	1,2-Dibromoethane (EDB)	**216**	25.0	50.0	100	D
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene		25.0	50.0	100	U
75-71-8	Dichlorodifluoromethane		50.0	100	200	U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	UY
75-35-4	1,1-Dichloroethene		25.0	50.0	100	U
156-59-2	cis-1,2-Dichloroethene		25.0	50.0	100	U
156-60-5	trans-1,2-Dichloroethene		25.0	50.0	100	U
78-87-5	1,2-Dichloropropane		25.0	50.0	100	U
142-28-9	1,3-Dichloropropane		25.0	50.0	100	U
594-20-7	2,2-Dichloropropane		25.0	50.0	100	U
563-58-6	1,1-Dichloropropene		25.0	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene		25.0	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene		25.0	50.0	100	U
100-41-4	Ethylbenzene	**1260**	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	200	U

ANALYSIS DATA SHEET

GW0812

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-13	File ID:	1103613D.D
Sampled:	10/31/12 16:27	Prepared:	11/07/12 17:20	Analyzed:	11/07/12 17:20
Solids:		Preparation:	5030B	Dilution:	100

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		125	250	500	U
98-82-8	Isopropylbenzene	**93.0**	25.0	50.0	100	JD
99-87-6	p-Isopropyltoluene		25.0	50.0	100	U
75-09-2	Methylene chloride		50.0	100	200	U
91-20-3	Naphthalene	**173**	25.0	50.0	200	JD
108-10-1	4-Methyl-2-pentanone		125	250	500	U
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	**82.0**	25.0	50.0	100	JD
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	UY
630-20-6	1,1,1,2-Tetrachloroethane		25.0	50.0	100	UX
127-18-4	Tetrachloroethene		25.0	50.0	100	UX
108-88-3	Toluene	**12300**	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	200	UX
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	200	UX
79-00-5	1,1,2-Trichloroethane		25.0	50.0	100	U
71-55-6	1,1,1-Trichloroethane		25.0	50.0	100	U
79-01-6	Trichloroethene		25.0	50.0	100	U
75-69-4	Trichlorofluoromethane		50.0	100	200	U
96-18-4	1,2,3-Trichloropropane		50.0	100	200	U
108-67-8	1,3,5-Trimethylbenzene	**109**	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	**394**	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	U
1330-20-7	Xylenes (total)	**4580**	75.0	150	300	D

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.73	99.1	75 - 120	
Dibromofluoromethane	30.00	28.18	93.9	85 - 115	
1,2-Dichloroethane-d4	30.00	29.82	99.4	70 - 120	
Toluene-d8	30.00	30.83	103	85 - 120	

ANALYSIS DATA SHEET

GW0813

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-15	File ID:	1103615.D
Sampled:	10/31/12 13:44	Prepared:	11/08/12 12:04	Analyzed:	11/08/12 12:04
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K08002 Sequence: 2K31306 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	UX

ANALYSIS DATA SHEET

GW0813

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-15	File ID:	1103615.D
Sampled:	10/31/12 13:44	Prepared:	11/08/12 12:04	Analyzed:	11/08/12 12:04
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K08002 Sequence: 2K31306 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	UX
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	UX
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.32	97.7	75 - 120	
Dibromofluoromethane	30.00	28.47	94.9	85 - 115	
1,2-Dichloroethane-d4	30.00	31.07	104	70 - 120	
Toluene-d8	30.00	30.42	101	85 - 120	

ANALYSIS DATA SHEET

GW0814

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-17	File ID:	1103617.D
Sampled:	10/31/12 11:21	Prepared:	11/07/12 14:57	Analyzed:	11/07/12 14:57
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	UX
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0814

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-17	File ID:	1103617.D
Sampled:	10/31/12 11:21	Prepared:	11/07/12 14:57	Analyzed:	11/07/12 14:57
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.87	96.2	75 - 120	
Dibromofluoromethane	30.00	26.56	88.5	85 - 115	
1,2-Dichloroethane-d4	30.00	30.46	102	70 - 120	
Toluene-d8	30.00	30.43	101	85 - 120	

ANALYSIS DATA SHEET

GW0832

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-19	File ID:	1103619.D
Sampled:	11/01/12 13:37	Prepared:	11/09/12 10:16	Analyzed:	11/09/12 10:16
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K09002 Sequence: 2K31408 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	UX
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	UX
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	NU
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	UX

ANALYSIS DATA SHEET

GW0832

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-19	File ID:	1103619.D
Sampled:	11/01/12 13:37	Prepared:	11/09/12 10:16	Analyzed:	11/09/12 10:16
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K09002 Sequence: 2K31408 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.32	97.7	75 - 120	
Dibromofluoromethane	30.00	28.47	94.9	85 - 115	
1,2-Dichloroethane-d4	30.00	30.92	103	70 - 120	
Toluene-d8	30.00	30.41	101	85 - 120	

ANALYSIS DATA SHEET

GW0833

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-21	File ID:	1103621.D
Sampled:	11/01/12 11:17	Prepared:	11/07/12 15:29	Analyzed:	11/07/12 15:29
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	UX
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW0833

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-21	File ID:	1103621.D
Sampled:	11/01/12 11:17	Prepared:	11/07/12 15:29	Analyzed:	11/07/12 15:29
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.47	94.9	75 - 120	
Dibromofluoromethane	30.00	27.50	91.7	85 - 115	
1,2-Dichloroethane-d4	30.00	29.82	99.4	70 - 120	
Toluene-d8	30.00	29.73	99.1	85 - 120	

ANALYSIS DATA SHEET

GW8060-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-23	File ID:	1103623.D
Sampled:	10/31/12 16:27	Prepared:	11/04/12 03:27	Analyzed:	11/04/12 03:27
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K03002 Sequence: 2K31009 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	UY
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	UYQ
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW8060-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-23	File ID:	1103623.D
Sampled:	10/31/12 16:27	Prepared:	11/04/12 03:27	Analyzed:	11/04/12 03:27
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K03002 Sequence: 2K31009 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.27	97.6	75 - 120	
Dibromofluoromethane	30.00	29.75	99.2	85 - 115	
1,2-Dichloroethane-d4	30.00	30.92	103	70 - 120	
Toluene-d8	30.00	29.59	98.6	85 - 120	

ANALYSIS DATA SHEET

GW8061-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-24	File ID:	1103624.D
Sampled:	10/31/12 15:32	Prepared:	11/04/12 03:55	Analyzed:	11/04/12 03:55
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K03002 Sequence: 2K31009 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	UY
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	UYQ
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW8061-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-24	File ID:	1103624.D
Sampled:	10/31/12 15:32	Prepared:	11/04/12 03:55	Analyzed:	11/04/12 03:55
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K03002 Sequence: 2K31009 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.92	96.4	75 - 120	
Dibromofluoromethane	30.00	29.57	98.6	85 - 115	
1,2-Dichloroethane-d4	30.00	31.40	105	70 - 120	
Toluene-d8	30.00	29.90	99.7	85 - 120	

ANALYSIS DATA SHEET

GW8239-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-25	File ID:	1103625.D
Sampled:	10/31/12 08:00	Prepared:	11/04/12 04:23	Analyzed:	11/04/12 04:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K03002 Sequence: 2K31009 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	UY
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	UYQ
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

GW8239-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-25	File ID:	1103625.D
Sampled:	10/31/12 08:00	Prepared:	11/04/12 04:23	Analyzed:	11/04/12 04:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 2K03002 Sequence: 2K31009 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

Total Target Analytes Reported: 64

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.58	95.3	75 - 120	
Dibromofluoromethane	30.00	28.65	95.5	85 - 115	
1,2-Dichloroethane-d4	30.00	30.65	102	70 - 120	
Toluene-d8	30.00	29.26	97.5	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31008	Instrument:	MS-VOA5
		Calibration:	2291001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31008-CCV1) ug/L				Lab File ID: 1103CCV1.D		Analyzed: 11/03/12 06:39		
Bromofluorobenzene	30.00	102	80 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	96.0	80 - 120	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.3	80 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	104	80 - 120	9.32	9.32	0.0000	+/-1.000	
LCS (2K03001-BS1) ug/L				Lab File ID: 1103LCS1.D		Analyzed: 11/03/12 07:07		
Bromofluorobenzene	30.00	102	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	97.9	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	105	85 - 120	9.32	9.32	0.0000	+/-1.000	
Blank (2K03001-BLK1) ug/L				Lab File ID: 1103BLK1.D		Analyzed: 11/03/12 08:30		
Bromofluorobenzene	30.00	97.1	75 - 120	11.95	11.94	0.0100	+/-1.000	
Dibromofluoromethane	30.00	97.6	85 - 115	6.57	6.56	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	98.5	85 - 120	9.31	9.32	-0.0100	+/-1.000	
GW0786 (1210292-01) ug/L				Lab File ID: 1029201.D		Analyzed: 11/03/12 10:21		
Bromofluorobenzene	30.00	92.8	75 - 120	11.95	11.94	0.0100	+/-1.000	
Dibromofluoromethane	30.00	98.5	85 - 115	6.57	6.56	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	96.4	85 - 120	9.32	9.32	0.0000	+/-1.000	
GW0787 (1210292-03) ug/L				Lab File ID: 1029203.D		Analyzed: 11/03/12 10:49		
Bromofluorobenzene	30.00	96.2	75 - 120	11.95	11.94	0.0100	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.57	6.56	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.32	9.32	0.0000	+/-1.000	
GW0788 (1210292-05) ug/L				Lab File ID: 1029205.D		Analyzed: 11/03/12 11:17		
Bromofluorobenzene	30.00	95.5	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	98.7	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.08	7.07	0.0100	+/-1.000	
Toluene-d8	30.00	98.9	85 - 120	9.31	9.32	-0.0100	+/-1.000	
GW0850 (1210292-11) ug/L				Lab File ID: 1029211.D		Analyzed: 11/03/12 11:45		
Bromofluorobenzene	30.00	94.7	75 - 120	11.95	11.94	0.0100	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.57	6.56	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	98.4	85 - 120	9.32	9.32	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31008	Instrument:	MS-VOA5
		Calibration:	2291001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0848 (1210292-07) ug/L				Lab File ID: 1029207D.D		Analyzed: 11/03/12 16:23		
Bromofluorobenzene	30.00	99.9	75 - 120	11.95	11.94	0.0100	+/-1.000	
Dibromofluoromethane	30.00	98.1	85 - 115	6.58	6.56	0.0200	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	7.08	7.07	0.0100	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.33	9.32	0.0100	+/-1.000	
GW0849 (1210292-09) ug/L				Lab File ID: 1029209D.D		Analyzed: 11/03/12 16:50		
Bromofluorobenzene	30.00	98.4	75 - 120	11.95	11.94	0.0100	+/-1.000	
Dibromofluoromethane	30.00	99.8	85 - 115	6.57	6.56	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	99.5	85 - 120	9.32	9.32	0.0000	+/-1.000	
Matrix Spike (2K03001-MS1) ug/L				Lab File ID: 1029209M.D		Analyzed: 11/03/12 17:18		
Bromofluorobenzene	30.00	102	75 - 120	11.95	11.94	0.0100	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.57	6.56	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	7.08	7.07	0.0100	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.32	9.32	0.0000	+/-1.000	
Matrix Spike Dup (2K03001-MSD1) ug/L				Lab File ID: 1029209S.D		Analyzed: 11/03/12 17:46		
Bromofluorobenzene	30.00	103	75 - 120	11.95	11.94	0.0100	+/-1.000	
Dibromofluoromethane	30.00	99.3	85 - 115	6.57	6.56	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	107	85 - 120	9.32	9.32	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31009	Instrument:	MS-VOA5
		Calibration:	2291001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31009-CCV1) ug/L				Lab File ID: 1103CCVE.D		Analyzed: 11/03/12 19:09		
Bromofluorobenzene	30.00	101	80 - 120	11.95	11.95	0.0000	+/-1.000	
Dibromofluoromethane	30.00	99.8	80 - 120	6.57	6.57	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	105	80 - 120	9.32	9.32	0.0000	+/-1.000	
LCS (2K03002-BS1) ug/L				Lab File ID: 1103LCSE.D		Analyzed: 11/03/12 19:36		
Bromofluorobenzene	30.00	103	75 - 120	11.94	11.95	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	97.5	85 - 115	6.57	6.57	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.08	7.07	0.0100	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.32	9.32	0.0000	+/-1.000	
Blank (2K03002-BLK1) ug/L				Lab File ID: 1103BLKE.D		Analyzed: 11/03/12 21:00		
Bromofluorobenzene	30.00	98.0	75 - 120	11.94	11.95	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	98.5	85 - 115	6.56	6.57	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.08	7.07	0.0100	+/-1.000	
Toluene-d8	30.00	99.4	85 - 120	9.31	9.32	-0.0100	+/-1.000	
GW8060-AB (1211036-23) ug/L				Lab File ID: 1103623.D		Analyzed: 11/04/12 03:27		
Bromofluorobenzene	30.00	97.6	75 - 120	11.94	11.95	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	99.2	85 - 115	6.56	6.57	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	98.6	85 - 120	9.31	9.32	-0.0100	+/-1.000	
GW8061-AB (1211036-24) ug/L				Lab File ID: 1103624.D		Analyzed: 11/04/12 03:55		
Bromofluorobenzene	30.00	96.4	75 - 120	11.94	11.95	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	98.6	85 - 115	6.56	6.57	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.06	7.07	-0.0100	+/-1.000	
Toluene-d8	30.00	99.7	85 - 120	9.31	9.32	-0.0100	+/-1.000	
GW8239-TB (1211036-25) ug/L				Lab File ID: 1103625.D		Analyzed: 11/04/12 04:23		
Bromofluorobenzene	30.00	95.3	75 - 120	11.94	11.95	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	95.5	85 - 115	6.56	6.57	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.06	7.07	-0.0100	+/-1.000	
Toluene-d8	30.00	97.5	85 - 120	9.31	9.32	-0.0100	+/-1.000	
LCS Dup (2K03002-BSD1) ug/L				Lab File ID: 1103LCDE.D		Analyzed: 11/04/12 05:46		
Bromofluorobenzene	30.00	99.7	75 - 120	11.94	11.95	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	96.4	85 - 115	6.56	6.57	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.06	7.07	-0.0100	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.31	9.32	-0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31303	Instrument:	MS-VOA5
		Calibration:	2291001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31303-CCV1) ug/L				Lab File ID: 1107CCV1.D		Analyzed: 11/07/12 07:57		
Bromofluorobenzene	30.00	102	80 - 120	11.95	11.95	0.0000	+/-1.000	
Dibromofluoromethane	30.00	93.4	80 - 120	6.57	6.57	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.9	80 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	107	80 - 120	9.32	9.32	0.0000	+/-1.000	
LCS (2K07005-BS1) ug/L				Lab File ID: 1107LCS1.D		Analyzed: 11/07/12 08:25		
Bromofluorobenzene	30.00	89.6	75 - 120	11.95	11.95	0.0000	+/-1.000	
Dibromofluoromethane	30.00	95.3	85 - 115	6.57	6.57	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.08	7.07	0.0100	+/-1.000	
Toluene-d8	30.00	98.1	85 - 120	9.32	9.32	0.0000	+/-1.000	
Blank (2K07005-BLK1) ug/L				Lab File ID: 1107BLK1.D		Analyzed: 11/07/12 09:48		
Bromofluorobenzene	30.00	97.9	75 - 120	11.95	11.95	0.0000	+/-1.000	
Dibromofluoromethane	30.00	93.6	85 - 115	6.57	6.57	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.32	9.32	0.0000	+/-1.000	
GW0755 (1211036-01) ug/L				Lab File ID: 1103601.D		Analyzed: 11/07/12 12:35		
Bromofluorobenzene	30.00	96.0	75 - 120	11.95	11.95	0.0000	+/-1.000	
Dibromofluoromethane	30.00	96.4	85 - 115	6.57	6.57	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	94.6	85 - 120	9.32	9.32	0.0000	+/-1.000	
GW0763 (1211036-05) ug/L				Lab File ID: 1103605.D		Analyzed: 11/07/12 13:03		
Bromofluorobenzene	30.00	98.1	75 - 120	11.94	11.95	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	93.6	85 - 115	6.57	6.57	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.08	7.07	0.0100	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.32	9.32	0.0000	+/-1.000	
GW0802 (1211036-07) ug/L				Lab File ID: 1103607.D		Analyzed: 11/07/12 13:31		
Bromofluorobenzene	30.00	97.7	75 - 120	11.94	11.95	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	93.3	85 - 115	6.57	6.57	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.08	7.07	0.0100	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.32	9.32	0.0000	+/-1.000	
GW0803 (1211036-09) ug/L				Lab File ID: 1103609.D		Analyzed: 11/07/12 13:59		
Bromofluorobenzene	30.00	95.9	75 - 120	11.95	11.95	0.0000	+/-1.000	
Dibromofluoromethane	30.00	93.1	85 - 115	6.57	6.57	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.6	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.32	9.32	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31303	Instrument:	MS-VOA5
		Calibration:	2291001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0804 (1211036-11) ug/L				Lab File ID: 1103611.D		Analyzed: 11/07/12 14:26		
Bromofluorobenzene	30.00	95.6	75 - 120	11.94	11.95	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	94.1	85 - 115	6.57	6.57	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.1	70 - 120	7.08	7.07	0.0100	+/-1.000	
Toluene-d8	30.00	99.2	85 - 120	9.32	9.32	0.0000	+/-1.000	
GW0814 (1211036-17) ug/L				Lab File ID: 1103617.D		Analyzed: 11/07/12 14:57		
Bromofluorobenzene	30.00	96.2	75 - 120	11.94	11.95	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	88.5	85 - 115	6.57	6.57	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.08	7.07	0.0100	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.31	9.32	-0.0100	+/-1.000	
GW0833 (1211036-21) ug/L				Lab File ID: 1103621.D		Analyzed: 11/07/12 15:29		
Bromofluorobenzene	30.00	94.9	75 - 120	11.95	11.95	0.0000	+/-1.000	
Dibromofluoromethane	30.00	91.7	85 - 115	6.57	6.57	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.4	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	99.1	85 - 120	9.32	9.32	0.0000	+/-1.000	
GW0762 (1211036-03) ug/L				Lab File ID: 1103603D.D		Analyzed: 11/07/12 16:52		
Bromofluorobenzene	30.00	96.3	75 - 120	11.94	11.95	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	95.1	85 - 115	6.56	6.57	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.08	7.07	0.0100	+/-1.000	
Toluene-d8	30.00	96.4	85 - 120	9.31	9.32	-0.0100	+/-1.000	
GW0812 (1211036-13) ug/L				Lab File ID: 1103613D.D		Analyzed: 11/07/12 17:20		
Bromofluorobenzene	30.00	99.1	75 - 120	11.94	11.95	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	93.9	85 - 115	6.56	6.57	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.4	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.31	9.32	-0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31306	Instrument:	MS-VOA5
		Calibration:	2291001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31306-CCV1) ug/L				Lab File ID: 1108CCV1.D		Analyzed: 11/08/12 08:18		
Bromofluorobenzene	30.00	118	80 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	96.9	80 - 120	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	80 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	108	80 - 120	9.3	9.3	0.0000	+/-1.000	
LCS (2K08002-BS1) ug/L				Lab File ID: 1108LCS1.D		Analyzed: 11/08/12 08:46		
Bromofluorobenzene	30.00	103	75 - 120	11.94	11.94	0.0000	+/-1.000	
Dibromofluoromethane	30.00	95.6	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.06	7.06	0.0000	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.31	9.3	0.0100	+/-1.000	
Blank (2K08002-BLK1) ug/L				Lab File ID: 1108BLK1.D		Analyzed: 11/08/12 10:10		
Bromofluorobenzene	30.00	93.5	75 - 120	11.93	11.94	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	93.9	85 - 115	6.55	6.56	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.07	7.06	0.0100	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.3	9.3	0.0000	+/-1.000	
GW0813 (1211036-15) ug/L				Lab File ID: 1103615.D		Analyzed: 11/08/12 12:04		
Bromofluorobenzene	30.00	97.7	75 - 120	11.93	11.94	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	94.9	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.07	7.06	0.0100	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.31	9.3	0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31408	Instrument:	MS-VOA5
		Calibration:	2291001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31408-CCV1) ug/L				Lab File ID: 1109CCV1.D		Analyzed: 11/09/12 07:01		
Bromofluorobenzene	30.00	104	80 - 120	11.93	11.93	0.0000	+/-1.000	
Dibromofluoromethane	30.00	95.4	80 - 120	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	80 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	107	80 - 120	9.31	9.31	0.0000	+/-1.000	
LCS (2K09002-BS1) ug/L				Lab File ID: 1109LCS1.D		Analyzed: 11/09/12 07:29		
Bromofluorobenzene	30.00	107	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	95.3	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.06	7.07	-0.0100	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.31	9.31	0.0000	+/-1.000	
Blank (2K09002-BLK1) ug/L				Lab File ID: 1109BLK1.D		Analyzed: 11/09/12 08:52		
Bromofluorobenzene	30.00	98.2	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	93.4	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.06	7.07	-0.0100	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.31	9.31	0.0000	+/-1.000	
GW0832 (1211036-19) ug/L				Lab File ID: 1103619.D		Analyzed: 11/09/12 10:16		
Bromofluorobenzene	30.00	97.7	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	94.9	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.06	7.07	-0.0100	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.31	9.31	0.0000	+/-1.000	
Matrix Spike (2K09002-MS1) ug/L				Lab File ID: 1103619M.D		Analyzed: 11/09/12 18:09		
Bromofluorobenzene	30.00	99.5	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	94.5	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.31	9.31	0.0000	+/-1.000	
Matrix Spike Dup (2K09002-MSD1) ug/L				Lab File ID: 1103619S.D		Analyzed: 11/09/12 18:36		
Bromofluorobenzene	30.00	102	75 - 120	11.94	11.93	0.0100	+/-1.000	
Dibromofluoromethane	30.00	95.0	85 - 115	6.56	6.56	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.07	7.07	0.0000	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.31	9.31	0.0000	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K03001	Laboratory ID:	2K03001-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	71.4	71.4	40 - 140
Benzene	50.00	49.1	98.2	80 - 120
Bromobenzene	50.00	41.4	82.9	75 - 125
Bromochloromethane	50.00	52.8	106	65 - 130
Bromodichloromethane	50.00	47.6	95.1	75 - 120
Bromoform	50.00	48.3	96.7	70 - 130
Bromomethane	50.00	37.8	75.7	30 - 145
n-Butylbenzene	50.00	54.0	108	70 - 135
2-Butanone	100.0	81.8	81.8	30 - 150
sec-Butylbenzene	50.00	48.0	95.9	70 - 125
tert-Butylbenzene	50.00	51.8	104	70 - 130
Carbon disulfide	50.00	51.7	103	35 - 160
Carbon tetrachloride	50.00	48.6	97.3	65 - 140
Chlorobenzene	50.00	56.2	112	80 - 120
Chloroethane	50.00	43.9	87.8	60 - 135
Chloroform	50.00	43.6	87.1	65 - 135
Chloromethane	50.00	42.3	84.5	40 - 125
2-Chlorotoluene	50.00	39.2	78.5	75 - 125
4-Chlorotoluene	50.00	42.9	85.8	75 - 130
Dibromochloromethane	50.00	55.2	110	60 - 135
1,2-Dibromo-3-chloropropane	50.00	45.8	91.5	50 - 130
1,2-Dibromoethane (EDB)	50.00	50.6	101	80 - 120
Dibromomethane	50.00	45.4	90.7	75 - 125
1,2-Dichlorobenzene	50.00	49.2	98.4	70 - 120
1,3-Dichlorobenzene	50.00	48.0	96.1	75 - 125
1,4-Dichlorobenzene	50.00	45.8	91.6	75 - 125
Dichlorodifluoromethane	50.00	46.4	92.7	30 - 155
1,1-Dichloroethane	50.00	46.1	92.2	70 - 135
1,2-Dichloroethane	50.00	40.5	80.9	70 - 130
1,1-Dichloroethene	50.00	51.4	103	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K03001	Laboratory ID:	2K03001-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	46.9	93.7	70 - 125
trans-1,2-Dichloroethene	50.00	48.8	97.6	60 - 140
1,2-Dichloropropane	50.00	46.6	93.2	75 - 125
1,3-Dichloropropane	50.00	46.7	93.3	75 - 125
2,2-Dichloropropane	50.00	42.8	85.6	70 - 135
1,1-Dichloropropene	50.00	45.5	91.0	75 - 130
cis-1,3-Dichloropropene	50.00	43.0	86.1	70 - 130
trans-1,3-Dichloropropene	50.00	46.1	92.2	55 - 140
Ethylbenzene	50.00	49.6	99.2	75 - 125
Hexachlorobutadiene	50.00	59.0	118	50 - 140
2-Hexanone	100.0	82.6	82.6	55 - 130
Isopropylbenzene	50.00	52.9	106	75 - 125
p-Isopropyltoluene	50.00	56.3	113	75 - 130
Methylene chloride	50.00	45.5	91.0	55 - 140
Naphthalene	50.00	55.2	110	55 - 140
4-Methyl-2-pentanone	100.0	87.8	87.8	60 - 135
Methyl t-Butyl Ether	50.00	45.3	90.7	65 - 125
n-Propylbenzene	50.00	44.4	88.7	70 - 130
Styrene	50.00	55.8	112	65 - 135
1,1,2,2-Tetrachloroethane	50.00	34.5	68.9	65 - 130
1,1,1,2-Tetrachloroethane	50.00	55.4	111	80 - 130
Tetrachloroethene	50.00	56.5	113	45 - 150
Toluene	50.00	48.7	97.4	75 - 120
1,2,3-Trichlorobenzene	50.00	60.8	122	55 - 140
1,2,4-Trichlorobenzene	50.00	61.7	123	65 - 135
1,1,2-Trichloroethane	50.00	46.0	92.0	75 - 125
1,1,1-Trichloroethane	50.00	43.5	87.1	65 - 130
Trichloroethene	50.00	47.4	94.7	70 - 125
Trichlorofluoromethane	50.00	43.2	86.4	60 - 145
1,2,3-Trichloropropane	50.00	48.6	97.2	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K03001	Laboratory ID:	2K03001-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	42.4	84.9	75 - 130
1,2,4-Trimethylbenzene	50.00	49.4	98.9	75 - 130
Vinyl chloride	50.00	35.4	70.8	50 - 145
Xylenes (total)	150.0	154	103	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K03002	Laboratory ID:	2K03002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	69.6	69.6	40 - 140
Benzene	50.00	50.4	101	80 - 120
Bromobenzene	50.00	42.0	84.0	75 - 125
Bromochloromethane	50.00	55.3	111	65 - 130
Bromodichloromethane	50.00	48.6	97.2	75 - 120
Bromoform	50.00	49.3	98.6	70 - 130
Bromomethane	50.00	39.1	78.2	30 - 145
n-Butylbenzene	50.00	51.4	103	70 - 135
2-Butanone	100.0	82.6	82.6	30 - 150
sec-Butylbenzene	50.00	48.0	96.1	70 - 125
tert-Butylbenzene	50.00	51.6	103	70 - 130
Carbon disulfide	50.00	51.6	103	35 - 160
Carbon tetrachloride	50.00	50.1	100	65 - 140
Chlorobenzene	50.00	57.6	115	80 - 120
Chloroethane	50.00	45.6	91.1	60 - 135
Chloroform	50.00	44.2	88.3	65 - 135
Chloromethane	50.00	43.0	86.1	40 - 125
2-Chlorotoluene	50.00	38.2	76.5	75 - 125
4-Chlorotoluene	50.00	41.7	83.4	75 - 130
Dibromochloromethane	50.00	57.2	114	60 - 135
1,2-Dibromo-3-chloropropane	50.00	43.3	86.7	50 - 130
1,2-Dibromoethane (EDB)	50.00	52.6	105	80 - 120
Dibromomethane	50.00	46.8	93.5	75 - 125
1,2-Dichlorobenzene	50.00	48.8	97.5	70 - 120
1,3-Dichlorobenzene	50.00	48.2	96.4	75 - 125
1,4-Dichlorobenzene	50.00	45.5	91.0	75 - 125
Dichlorodifluoromethane	50.00	47.1	94.2	30 - 155
1,1-Dichloroethane	50.00	46.8	93.7	70 - 135
1,2-Dichloroethane	50.00	40.8	81.7	70 - 130
1,1-Dichloroethene	50.00	52.2	104	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K03002	Laboratory ID:	2K03002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	48.2	96.3	70 - 125
trans-1,2-Dichloroethene	50.00	46.5	92.9	60 - 140
1,2-Dichloropropane	50.00	47.6	95.1	75 - 125
1,3-Dichloropropane	50.00	47.1	94.2	75 - 125
2,2-Dichloropropane	50.00	36.6	73.2	70 - 135
1,1-Dichloropropene	50.00	46.4	92.8	75 - 130
cis-1,3-Dichloropropene	50.00	43.3	86.5	70 - 130
trans-1,3-Dichloropropene	50.00	45.0	90.0	55 - 140
Ethylbenzene	50.00	51.6	103	75 - 125
Hexachlorobutadiene	50.00	59.8	120	50 - 140
2-Hexanone	100.0	79.0	79.0	55 - 130
Isopropylbenzene	50.00	54.0	108	75 - 125
p-Isopropyltoluene	50.00	55.8	112	75 - 130
Methylene chloride	50.00	45.9	91.8	55 - 140
Naphthalene	50.00	56.9	114	55 - 140
4-Methyl-2-pentanone	100.0	84.0	84.0	60 - 135
Methyl t-Butyl Ether	50.00	46.4	92.8	65 - 125
n-Propylbenzene	50.00	42.6	85.2	70 - 130
Styrene	50.00	56.9	114	65 - 135
1,1,2,2-Tetrachloroethane	50.00	33.7	67.3	65 - 130
1,1,1,2-Tetrachloroethane	50.00	57.9	116	80 - 130
Tetrachloroethene	50.00	60.0	120	45 - 150
Toluene	50.00	48.9	97.7	75 - 120
1,2,3-Trichlorobenzene	50.00	61.8	124	55 - 140
1,2,4-Trichlorobenzene	50.00	63.0	126	65 - 135
1,1,2-Trichloroethane	50.00	48.2	96.3	75 - 125
1,1,1-Trichloroethane	50.00	45.0	89.9	65 - 130
Trichloroethene	50.00	49.1	98.2	70 - 125
Trichlorofluoromethane	50.00	44.3	88.6	60 - 145
1,2,3-Trichloropropane	50.00	49.6	99.2	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K03002	Laboratory ID:	2K03002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	42.4	84.8	75 - 130
1,2,4-Trimethylbenzene	50.00	48.9	97.9	75 - 130
Vinyl chloride	50.00	38.3	76.6	50 - 145
Xylenes (total)	150.0	156	104	75 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	74.8	74.8	7.16	30	40 - 140
Benzene	50.00	50.1	100	0.537	30	80 - 120
Bromobenzene	50.00	41.6	83.2	0.956	30	75 - 125
Bromochloromethane	50.00	54.6	109	1.40	30	65 - 130
Bromodichloromethane	50.00	48.6	97.3	0.0823	30	75 - 120
Bromoform	50.00	49.2	98.4	0.122	30	70 - 130
Bromomethane	50.00	35.6	71.1	9.45	30	30 - 145
n-Butylbenzene	50.00	49.5	99.0	3.78	30	70 - 135
2-Butanone	100.0	85.8	85.8	3.79	30	30 - 150
sec-Butylbenzene	50.00	46.6	93.2	3.06	30	70 - 125
tert-Butylbenzene	50.00	51.4	103	0.447	30	70 - 130
Carbon disulfide	50.00	51.5	103	0.0970	30	35 - 160
Carbon tetrachloride	50.00	47.8	95.6	4.78	30	65 - 140
Chlorobenzene	50.00	56.8	114	1.42	30	80 - 120
Chloroethane	50.00	45.0	90.0	1.26	30	60 - 135
Chloroform	50.00	44.0	87.9	0.431	30	65 - 135
Chloromethane	50.00	43.7	87.4	1.57	30	40 - 125
2-Chlorotoluene	50.00	38.9	77.8	1.66	30	75 - 125
4-Chlorotoluene	50.00	41.9	83.8	0.526	30	75 - 130
Dibromochloromethane	50.00	55.8	112	2.48	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	47.1	94.2	8.27	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	52.0	104	1.21	30	80 - 120
Dibromomethane	50.00	46.1	92.1	1.49	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K03002	Laboratory ID:	2K03002-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichlorobenzene	50.00	49.3	98.6	1.12	30	70 - 120
1,3-Dichlorobenzene	50.00	47.2	94.3	2.12	30	75 - 125
1,4-Dichlorobenzene	50.00	45.0	90.0	1.04	30	75 - 125
Dichlorodifluoromethane	50.00	44.0	88.1	6.65	30	30 - 155
1,1-Dichloroethane	50.00	46.4	92.9	0.879	30	70 - 135
1,2-Dichloroethane	50.00	40.7	81.4	0.368	30	70 - 130
1,1-Dichloroethene	50.00	53.3	107	1.97	30	70 - 130
cis-1,2-Dichloroethene	50.00	47.0	93.9	2.50	30	70 - 125
trans-1,2-Dichloroethene	50.00	48.9	97.7	5.03	30	60 - 140
1,2-Dichloropropane	50.00	47.3	94.6	0.506	30	75 - 125
1,3-Dichloropropane	50.00	45.6	91.1	3.28	30	75 - 125
2,2-Dichloropropane	**50.00**	**29.6**	**59.2 ***	**21.1**	**30**	**70 - 135**
1,1-Dichloropropene	50.00	45.6	91.2	1.76	30	75 - 130
cis-1,3-Dichloropropene	50.00	40.5	81.1	6.52	30	70 - 130
trans-1,3-Dichloropropene	50.00	43.6	87.1	3.23	30	55 - 140
Ethylbenzene	50.00	49.5	99.0	4.19	30	75 - 125
Hexachlorobutadiene	50.00	51.6	103	14.7	30	50 - 140
2-Hexanone	100.0	83.5	83.5	5.55	30	55 - 130
Isopropylbenzene	50.00	51.8	104	4.01	30	75 - 125
p-Isopropyltoluene	50.00	53.4	107	4.23	30	75 - 130
Methylene chloride	50.00	47.0	94.0	2.39	30	55 - 140
Naphthalene	50.00	52.3	105	8.43	30	55 - 140
4-Methyl-2-pentanone	100.0	88.4	88.4	5.06	30	60 - 135
Methyl t-Butyl Ether	50.00	46.8	93.6	0.858	30	65 - 125
n-Propylbenzene	50.00	42.5	85.0	0.235	30	70 - 130
Styrene	50.00	54.4	109	4.46	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	35.2	70.4	4.50	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	56.5	113	2.40	30	80 - 130
Tetrachloroethene	50.00	55.7	111	7.29	30	45 - 150
Toluene	50.00	48.4	96.7	1.07	30	75 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K03002	Laboratory ID:	2K03002-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2,3-Trichlorobenzene	50.00	59.0	118	4.72	30	55 - 140
1,2,4-Trichlorobenzene	50.00	58.8	118	6.82	30	65 - 135
1,1,2-Trichloroethane	50.00	49.0	98.1	1.79	30	75 - 125
1,1,1-Trichloroethane	50.00	43.8	87.7	2.48	30	65 - 130
Trichloroethene	50.00	48.9	97.8	0.469	30	70 - 125
Trichlorofluoromethane	50.00	41.8	83.7	5.64	30	60 - 145
1,2,3-Trichloropropane	50.00	51.1	102	2.96	30	75 - 125
1,3,5-Trimethylbenzene	50.00	41.8	83.6	1.45	30	75 - 130
1,2,4-Trimethylbenzene	50.00	49.0	98.0	0.102	30	75 - 130
Vinyl chloride	50.00	35.5	71.0	7.59	30	50 - 145
Xylenes (total)	150.0	152	102	2.34	30	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K07005	Laboratory ID:	2K07005-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	80.0	80.0	40 - 140
Benzene	50.00	51.7	103	80 - 120
Bromobenzene	50.00	45.8	91.6	75 - 125
Bromochloromethane	50.00	49.5	98.9	65 - 130
Bromodichloromethane	50.00	52.4	105	75 - 120
Bromoform	50.00	47.7	95.4	70 - 130
Bromomethane	50.00	39.0	78.0	30 - 145
n-Butylbenzene	50.00	56.2	112	70 - 135
2-Butanone	100.0	94.6	94.6	30 - 150
sec-Butylbenzene	50.00	53.4	107	70 - 125
tert-Butylbenzene	50.00	54.9	110	70 - 130
Carbon disulfide	50.00	54.8	110	35 - 160
Carbon tetrachloride	50.00	51.3	103	65 - 140
Chlorobenzene	50.00	54.2	108	80 - 120
Chloroethane	50.00	46.4	92.8	60 - 135
Chloroform	50.00	47.5	95.0	65 - 135
Chloromethane	50.00	43.4	86.8	40 - 125
2-Chlorotoluene	50.00	41.7	83.4	75 - 125
4-Chlorotoluene	50.00	44.4	88.7	75 - 130
Dibromochloromethane	50.00	54.1	108	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.3	98.6	50 - 130
1,2-Dibromoethane (EDB)	50.00	48.9	97.8	80 - 120
Dibromomethane	50.00	47.0	93.9	75 - 125
1,2-Dichlorobenzene	50.00	50.9	102	70 - 120
1,3-Dichlorobenzene	50.00	50.1	100	75 - 125
1,4-Dichlorobenzene	50.00	47.5	95.0	75 - 125
Dichlorodifluoromethane	50.00	48.7	97.4	30 - 155
1,1-Dichloroethane	50.00	49.1	98.3	70 - 135
1,2-Dichloroethane	50.00	45.5	91.1	70 - 130
1,1-Dichloroethene	50.00	55.7	111	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K07005	Laboratory ID:	2K07005-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	49.8	99.5	70 - 125
trans-1,2-Dichloroethene	50.00	49.7	99.5	60 - 140
1,2-Dichloropropane	50.00	49.0	98.1	75 - 125
1,3-Dichloropropane	50.00	48.8	97.7	75 - 125
2,2-Dichloropropane	50.00	47.6	95.2	70 - 135
1,1-Dichloropropene	50.00	49.3	98.7	75 - 130
cis-1,3-Dichloropropene	50.00	47.4	94.9	70 - 130
trans-1,3-Dichloropropene	50.00	52.1	104	55 - 140
Ethylbenzene	50.00	52.0	104	75 - 125
Hexachlorobutadiene	50.00	63.6	127	50 - 140
2-Hexanone	100.0	98.0	98.0	55 - 130
Isopropylbenzene	50.00	50.6	101	75 - 125
p-Isopropyltoluene	50.00	59.4	119	75 - 130
Methylene chloride	50.00	46.8	93.7	55 - 140
Naphthalene	50.00	58.0	116	55 - 140
4-Methyl-2-pentanone	100.0	105	105	60 - 135
Methyl t-Butyl Ether	50.00	47.5	95.0	65 - 125
n-Propylbenzene	50.00	47.1	94.2	70 - 130
Styrene	50.00	56.5	113	65 - 135
1,1,2,2-Tetrachloroethane	50.00	35.3	70.7	65 - 130
1,1,1,2-Tetrachloroethane	50.00	52.8	106	80 - 130
Tetrachloroethene	50.00	49.2	98.3	45 - 150
Toluene	50.00	51.1	102	75 - 120
1,2,3-Trichlorobenzene	50.00	64.9	130	55 - 140
1,2,4-Trichlorobenzene	50.00	65.8	132	65 - 135
1,1,2-Trichloroethane	50.00	48.8	97.6	75 - 125
1,1,1-Trichloroethane	50.00	47.8	95.7	65 - 130
Trichloroethene	50.00	47.3	94.6	70 - 125
Trichlorofluoromethane	50.00	47.9	95.8	60 - 145
1,2,3-Trichloropropane	50.00	46.1	92.3	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K07005	Laboratory ID:	2K07005-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	46.5	92.9	75 - 130
1,2,4-Trimethylbenzene	50.00	52.7	105	75 - 130
Vinyl chloride	50.00	37.8	75.7	50 - 145
Xylenes (total)	150.0	165	110	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08002	Laboratory ID:	2K08002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	92.0	92.0	40 - 140
Benzene	50.00	46.1	92.2	80 - 120
Bromobenzene	50.00	43.8	87.6	75 - 125
Bromochloromethane	50.00	53.4	107	65 - 130
Bromodichloromethane	50.00	46.2	92.5	75 - 120
Bromoform	50.00	53.8	108	70 - 130
Bromomethane	50.00	40.0	79.9	30 - 145
n-Butylbenzene	50.00	50.4	101	70 - 135
2-Butanone	100.0	87.8	87.8	30 - 150
sec-Butylbenzene	50.00	49.9	99.8	70 - 125
tert-Butylbenzene	50.00	51.5	103	70 - 130
Carbon disulfide	50.00	56.0	112	35 - 160
Carbon tetrachloride	50.00	46.4	92.8	65 - 140
Chlorobenzene	50.00	57.4	115	80 - 120
Chloroethane	50.00	45.6	91.2	60 - 135
Chloroform	50.00	40.9	81.9	65 - 135
Chloromethane	50.00	42.4	84.9	40 - 125
2-Chlorotoluene	50.00	39.0	78.0	75 - 125
4-Chlorotoluene	50.00	41.8	83.7	75 - 130
Dibromochloromethane	50.00	60.1	120	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.5	99.0	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.6	107	80 - 120
Dibromomethane	50.00	44.8	89.5	75 - 125
1,2-Dichlorobenzene	50.00	48.3	96.7	70 - 120
1,3-Dichlorobenzene	50.00	47.7	95.5	75 - 125
1,4-Dichlorobenzene	50.00	44.7	89.4	75 - 125
Dichlorodifluoromethane	50.00	46.7	93.3	30 - 155
1,1-Dichloroethane	50.00	42.5	85.1	70 - 135
1,2-Dichloroethane	50.00	38.7	77.3	70 - 130
1,1-Dichloroethene	50.00	55.3	111	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08002	Laboratory ID:	2K08002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	45.6	91.1	70 - 125
trans-1,2-Dichloroethene	50.00	48.1	96.2	60 - 140
1,2-Dichloropropane	50.00	43.1	86.2	75 - 125
1,3-Dichloropropane	50.00	47.0	94.0	75 - 125
2,2-Dichloropropane	50.00	38.0	76.0	70 - 135
1,1-Dichloropropene	50.00	42.3	84.6	75 - 130
cis-1,3-Dichloropropene	50.00	40.8	81.6	70 - 130
trans-1,3-Dichloropropene	50.00	48.0	95.9	55 - 140
Ethylbenzene	50.00	51.0	102	75 - 125
Hexachlorobutadiene	50.00	62.1	124	50 - 140
2-Hexanone	100.0	95.2	95.2	55 - 130
Isopropylbenzene	50.00	56.3	113	75 - 125
p-Isopropyltoluene	50.00	54.9	110	75 - 130
Methylene chloride	50.00	49.5	98.9	55 - 140
Naphthalene	50.00	53.1	106	55 - 140
4-Methyl-2-pentanone	100.0	91.5	91.5	60 - 135
Methyl t-Butyl Ether	50.00	44.7	89.5	65 - 125
n-Propylbenzene	50.00	43.7	87.4	70 - 130
Styrene	50.00	56.7	113	65 - 135
1,1,2,2-Tetrachloroethane	50.00	34.8	69.6	65 - 130
1,1,1,2-Tetrachloroethane	50.00	60.4	121	80 - 130
Tetrachloroethene	50.00	60.5	121	45 - 150
Toluene	50.00	49.8	99.6	75 - 120
1,2,3-Trichlorobenzene	50.00	61.8	124	55 - 140
1,2,4-Trichlorobenzene	50.00	62.7	125	65 - 135
1,1,2-Trichloroethane	50.00	48.9	97.9	75 - 125
1,1,1-Trichloroethane	50.00	42.6	85.1	65 - 130
Trichloroethene	50.00	45.2	90.4	70 - 125
Trichlorofluoromethane	50.00	45.8	91.5	60 - 145
1,2,3-Trichloropropane	50.00	54.3	109	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08002	Laboratory ID:	2K08002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	43.1	86.3	75 - 130
1,2,4-Trimethylbenzene	50.00	48.4	96.8	75 - 130
Vinyl chloride	50.00	35.3	70.6	50 - 145
Xylenes (total)	150.0	160	107	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K09002	Laboratory ID:	2K09002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	88.0	88.0	40 - 140
Benzene	50.00	47.1	94.1	80 - 120
Bromobenzene	50.00	43.7	87.5	75 - 125
Bromochloromethane	50.00	52.4	105	65 - 130
Bromodichloromethane	50.00	46.5	93.1	75 - 120
Bromoform	50.00	53.1	106	70 - 130
Bromomethane	50.00	39.7	79.4	30 - 145
n-Butylbenzene	50.00	53.3	107	70 - 135
2-Butanone	100.0	90.8	90.8	30 - 150
sec-Butylbenzene	50.00	50.8	102	70 - 125
tert-Butylbenzene	50.00	52.5	105	70 - 130
Carbon disulfide	50.00	51.0	102	35 - 160
Carbon tetrachloride	50.00	48.0	96.0	65 - 140
Chlorobenzene	50.00	58.2	116	80 - 120
Chloroethane	50.00	47.6	95.3	60 - 135
Chloroform	50.00	41.8	83.6	65 - 135
Chloromethane	50.00	44.5	89.1	40 - 125
2-Chlorotoluene	50.00	39.5	79.0	75 - 125
4-Chlorotoluene	50.00	42.6	85.2	75 - 130
Dibromochloromethane	50.00	60.8	122	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.4	98.8	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.7	107	80 - 120
Dibromomethane	50.00	43.9	87.8	75 - 125
1,2-Dichlorobenzene	50.00	48.6	97.2	70 - 120
1,3-Dichlorobenzene	50.00	46.9	93.8	75 - 125
1,4-Dichlorobenzene	50.00	45.1	90.1	75 - 125
Dichlorodifluoromethane	50.00	46.2	92.5	30 - 155
1,1-Dichloroethane	50.00	44.2	88.4	70 - 135
1,2-Dichloroethane	50.00	37.9	75.8	70 - 130
1,1-Dichloroethene	50.00	57.1	114	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K09002	Laboratory ID:	2K09002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	45.6	91.1	70 - 125
trans-1,2-Dichloroethene	50.00	49.0	97.9	60 - 140
1,2-Dichloropropane	50.00	43.3	86.7	75 - 125
1,3-Dichloropropane	50.00	46.4	92.9	75 - 125
2,2-Dichloropropane	50.00	40.7	81.4	70 - 135
1,1-Dichloropropene	50.00	43.0	86.1	75 - 130
cis-1,3-Dichloropropene	50.00	40.5	81.0	70 - 130
trans-1,3-Dichloropropene	50.00	47.8	95.5	55 - 140
Ethylbenzene	50.00	51.9	104	75 - 125
Hexachlorobutadiene	50.00	65.0	130	50 - 140
2-Hexanone	100.0	96.5	96.5	55 - 130
Isopropylbenzene	50.00	57.0	114	75 - 125
p-Isopropyltoluene	50.00	57.4	115	75 - 130
Methylene chloride	50.00	44.5	88.9	55 - 140
Naphthalene	50.00	57.5	115	55 - 140
4-Methyl-2-pentanone	100.0	94.3	94.3	60 - 135
Methyl t-Butyl Ether	50.00	43.9	87.8	65 - 125
n-Propylbenzene	50.00	44.5	89.0	70 - 130
Styrene	50.00	58.0	116	65 - 135
1,1,2,2-Tetrachloroethane	50.00	34.1	68.2	65 - 130
1,1,1,2-Tetrachloroethane	50.00	60.7	121	80 - 130
Tetrachloroethene	50.00	61.1	122	45 - 150
Toluene	50.00	50.8	102	75 - 120
1,2,3-Trichlorobenzene	50.00	66.9	134	55 - 140
1,2,4-Trichlorobenzene	50.00	65.8	132	65 - 135
1,1,2-Trichloroethane	50.00	49.4	98.9	75 - 125
1,1,1-Trichloroethane	50.00	43.8	87.7	65 - 130
Trichloroethene	50.00	45.7	91.3	70 - 125
Trichlorofluoromethane	50.00	47.1	94.2	60 - 145
1,2,3-Trichloropropane	50.00	54.7	109	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K09002	Laboratory ID:	2K09002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	44.5	89.0	75 - 130
1,2,4-Trimethylbenzene	50.00	50.2	100	75 - 130
Vinyl chloride	50.00	36.0	72.0	50 - 145
Xylenes (total)	150.0	163	109	75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K03001

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acetone	500.0	12.6	368	71.1		40 - 140
Benzene	250.0	ND	256	103		80 - 120
Bromobenzene	250.0	ND	215	85.9		75 - 125
Bromochloromethane	250.0	ND	272	109		65 - 130
Bromodichloromethane	250.0	ND	249	99.7		75 - 120
Bromoform	250.0	ND	244	97.7		70 - 130
Bromomethane	250.0	ND	165	66.1		30 - 145
n-Butylbenzene	250.0	ND	257	103		70 - 135
2-Butanone	500.0	ND	414	82.8		30 - 150
sec-Butylbenzene	250.0	ND	239	95.6		70 - 125
tert-Butylbenzene	250.0	ND	261	104		70 - 130
Carbon disulfide	250.0	ND	266	106		35 - 160
Carbon tetrachloride	250.0	ND	248	99.1		65 - 140
Chlorobenzene	250.0	ND	282	113		80 - 120
Chloroethane	250.0	ND	234	93.4		60 - 135
Chloroform	250.0	ND	226	90.2		65 - 135
Chloromethane	250.0	ND	217	86.8		40 - 125
2-Chlorotoluene	250.0	ND	198	79.2		75 - 125
4-Chlorotoluene	250.0	ND	211	84.5		75 - 130
Dibromochloromethane	250.0	ND	280	112		60 - 135
1,2-Dibromo-3-chloropropane	250.0	ND	230	92.1		50 - 130
1,2-Dibromoethane (EDB)	250.0	ND	259	104		80 - 120
Dibromomethane	250.0	ND	235	94.1		75 - 125
1,2-Dichlorobenzene	250.0	ND	248	99.2		70 - 120
1,3-Dichlorobenzene	250.0	ND	239	95.7		75 - 125
1,4-Dichlorobenzene	250.0	ND	229	91.5		75 - 125
Dichlorodifluoromethane	250.0	ND	231	92.4		30 - 155
1,1-Dichloroethane	250.0	ND	242	96.7		70 - 135
1,2-Dichloroethane	250.0	ND	210	84.2		70 - 130
1,1-Dichloroethene	250.0	ND	275	110		70 - 130
cis-1,2-Dichloroethene	250.0	ND	241	96.3		70 - 125
trans-1,2-Dichloroethene	250.0	ND	248	99.1		60 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K03001

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dichloropropane	250.0	ND	240	95.9		75 - 125
1,3-Dichloropropane	250.0	ND	234	93.7		75 - 125
2,2-Dichloropropane	250.0	ND	191	76.3		70 - 135
1,1-Dichloropropene	250.0	ND	236	94.5		75 - 130
cis-1,3-Dichloropropene	250.0	ND	215	86.1		70 - 130
trans-1,3-Dichloropropene	250.0	ND	229	91.7		55 - 140
Ethylbenzene	250.0	ND	249	99.7		75 - 125
Hexachlorobutadiene	250.0	ND	257	103		50 - 140
2-Hexanone	500.0	ND	407	81.4		55 - 130
Isopropylbenzene	250.0	2.85	267	106		75 - 125
p-Isopropyltoluene	250.0	ND	278	111		75 - 130
Methylene chloride	250.0	ND	238	95.4		55 - 140
Naphthalene	250.0	ND	264	106		55 - 140
4-Methyl-2-pentanone	500.0	ND	451	90.1		60 - 135
Methyl t-Butyl Ether	250.0	ND	242	96.7		65 - 125
n-Propylbenzene	250.0	ND	221	88.5		70 - 130
Styrene	250.0	ND	282	113		65 - 135
1,1,2,2-Tetrachloroethane	250.0	ND	179	71.8		65 - 130
1,1,1,2-Tetrachloroethane	250.0	ND	278	111		80 - 130
Tetrachloroethene	250.0	ND	281	112		45 - 150
Toluene	250.0	ND	243	97.0		75 - 120
1,2,3-Trichlorobenzene	250.0	ND	283	113		55 - 140
1,2,4-Trichlorobenzene	250.0	ND	292	117		65 - 135
1,1,2-Trichloroethane	250.0	ND	242	96.8		75 - 125
1,1,1-Trichloroethane	250.0	ND	225	90.0		65 - 130
Trichloroethene	250.0	ND	245	98.0		70 - 125
Trichlorofluoromethane	250.0	ND	214	85.5		60 - 145
1,2,3-Trichloropropane	250.0	ND	248	99.0		75 - 125
1,3,5-Trimethylbenzene	250.0	ND	213	85.1		75 - 130
1,2,4-Trimethylbenzene	250.0	ND	248	99.0		75 - 130
Vinyl chloride	250.0	ND	187	74.7		50 - 145
Xylenes (total)	750.0	ND	784	105		75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K03001

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	500.0	363	70.1	1.29		30	40 - 140
Benzene	250.0	260	104	1.57		30	80 - 120
Bromobenzene	250.0	219	87.5	1.84		30	75 - 125
Bromochloromethane	250.0	279	112	2.54		30	65 - 130
Bromodichloromethane	250.0	250	100	0.420		30	75 - 120
Bromoform	250.0	254	102	3.87		30	70 - 130
Bromomethane	250.0	193	77.2	15.6		30	30 - 145
n-Butylbenzene	250.0	257	103	0.117		30	70 - 135
2-Butanone	500.0	405	81.0	2.23		30	30 - 150
sec-Butylbenzene	250.0	240	96.1	0.584		30	70 - 125
tert-Butylbenzene	250.0	264	106	1.41		30	70 - 130
Carbon disulfide	250.0	278	111	4.52		30	35 - 160
Carbon tetrachloride	250.0	260	104	4.71		30	65 - 140
Chlorobenzene	250.0	296	118	4.55		30	80 - 120
Chloroethane	250.0	238	95.2	1.84		30	60 - 135
Chloroform	250.0	228	91.3	1.17		30	65 - 135
Chloromethane	250.0	224	89.5	3.06		30	40 - 125
2-Chlorotoluene	250.0	196	78.5	0.812		30	75 - 125
4-Chlorotoluene	250.0	215	86.1	1.90		30	75 - 130
Dibromochloromethane	250.0	293	117	4.35		30	60 - 135
1,2-Dibromo-3-chloropropane	250.0	232	93.0	0.929		30	50 - 130
1,2-Dibromoethane (EDB)	250.0	266	107	2.85		30	80 - 120
Dibromomethane	250.0	237	94.9	0.804		30	75 - 125
1,2-Dichlorobenzene	250.0	253	101	2.06		30	70 - 120
1,3-Dichlorobenzene	250.0	247	98.9	3.25		30	75 - 125
1,4-Dichlorobenzene	250.0	236	94.2	2.95		30	75 - 125
Dichlorodifluoromethane	250.0	243	97.1	4.98		30	30 - 155
1,1-Dichloroethane	250.0	244	97.6	0.927		30	70 - 135
1,2-Dichloroethane	250.0	210	84.2	0.0238		30	70 - 130
1,1-Dichloroethene	250.0	289	116	5.01		30	70 - 130
cis-1,2-Dichloroethene	250.0	242	96.7	0.332		30	70 - 125
trans-1,2-Dichloroethene	250.0	258	103	3.88		30	60 - 140
1,2-Dichloropropane	250.0	247	98.7	2.88		30	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K03001

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichloropropane	250.0	233	93.3	0.428		30	75 - 125
2,2-Dichloropropane	250.0	191	76.3	0.0786		30	70 - 135
1,1-Dichloropropene	250.0	242	96.6	2.22		30	75 - 130
cis-1,3-Dichloropropene	250.0	218	87.1	1.09		30	70 - 130
trans-1,3-Dichloropropene	250.0	227	90.6	1.23		30	55 - 140
Ethylbenzene	250.0	260	104	4.11		30	75 - 125
Hexachlorobutadiene	250.0	296	118	13.9		30	50 - 140
2-Hexanone	500.0	401	80.2	1.39		30	55 - 130
Isopropylbenzene	250.0	272	108	1.91		30	75 - 125
p-Isopropyltoluene	250.0	281	112	1.27		30	75 - 130
Methylene chloride	250.0	245	98.0	2.73		30	55 - 140
Naphthalene	250.0	286	114	7.89		30	55 - 140
4-Methyl-2-pentanone	500.0	435	87.0	3.55		30	60 - 135
Methyl t-Butyl Ether	250.0	239	95.5	1.27		30	65 - 125
n-Propylbenzene	250.0	221	88.5	0.00		30	70 - 130
Styrene	250.0	290	116	2.82		30	65 - 135
1,1,2,2-Tetrachloroethane	250.0	174	69.7	3.00		30	65 - 130
1,1,1,2-Tetrachloroethane	250.0	296	118	6.24		30	80 - 130
Tetrachloroethene	250.0	307	123	8.88		30	45 - 150
Toluene	250.0	250	100	3.20		30	75 - 120
1,2,3-Trichlorobenzene	250.0	320	128	12.4		30	55 - 140
1,2,4-Trichlorobenzene	250.0	316	126	8.05		30	65 - 135
1,1,2-Trichloroethane	250.0	247	98.7	1.96		30	75 - 125
1,1,1-Trichloroethane	250.0	231	92.3	2.44		30	65 - 130
Trichloroethene	250.0	255	102	4.06		30	70 - 125
Trichlorofluoromethane	250.0	232	92.9	8.32		30	60 - 145
1,2,3-Trichloropropane	250.0	252	101	1.90		30	75 - 125
1,3,5-Trimethylbenzene	250.0	217	86.7	1.86		30	75 - 130
1,2,4-Trimethylbenzene	250.0	245	98.0	1.04		30	75 - 130
Vinyl chloride	250.0	197	78.8	5.37		30	50 - 145
Xylenes (total)	750.0	799	106	1.83		30	75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K09002

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acetone	100.0	ND	71.9	71.9		40 - 140
Benzene	50.00	ND	50.1	100		80 - 120
Bromobenzene	50.00	ND	45.8	91.6		75 - 125
Bromochloromethane	50.00	ND	54.0	108		65 - 130
Bromodichloromethane	50.00	ND	48.9	97.9		75 - 120
Bromoform	50.00	ND	48.9	97.8		70 - 130
Bromomethane	50.00	ND	39.7	79.4		30 - 145
n-Butylbenzene	50.00	ND	53.9	108		70 - 135
2-Butanone	100.0	ND	70.7	70.7		30 - 150
sec-Butylbenzene	50.00	ND	53.3	107		70 - 125
tert-Butylbenzene	50.00	ND	55.1	110		70 - 130
Carbon disulfide	50.00	ND	58.6	117		35 - 160
Carbon tetrachloride	50.00	ND	49.6	99.2		65 - 140
Chlorobenzene	50.00	ND	59.3	119		80 - 120
Chloroethane	50.00	ND	49.0	97.9		60 - 135
Chloroform	50.00	ND	44.2	88.5		65 - 135
Chloromethane	50.00	ND	45.9	91.8		40 - 125
2-Chlorotoluene	50.00	ND	41.7	83.4		75 - 125
4-Chlorotoluene	50.00	ND	44.2	88.5		75 - 130
Dibromochloromethane	50.00	ND	58.7	117		60 - 135
1,2-Dibromo-3-chloropropane	50.00	ND	45.5	91.0		50 - 130
1,2-Dibromoethane (EDB)	50.00	ND	51.6	103		80 - 120
Dibromomethane	50.00	ND	45.2	90.3		75 - 125
1,2-Dichlorobenzene	50.00	ND	49.8	99.5		70 - 120
1,3-Dichlorobenzene	50.00	ND	49.2	98.3		75 - 125
1,4-Dichlorobenzene	50.00	ND	46.8	93.5		75 - 125
Dichlorodifluoromethane	50.00	ND	47.6	95.2		30 - 155
1,1-Dichloroethane	50.00	ND	49.1	98.1		70 - 135
1,2-Dichloroethane	50.00	ND	39.4	78.9		70 - 130
1,1-Dichloroethene	50.00	ND	59.0	118		70 - 130
cis-1,2-Dichloroethene	50.00	ND	47.0	94.1		70 - 125
trans-1,2-Dichloroethene	50.00	ND	52.1	104		60 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K09002

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dichloropropane	50.00	ND	46.3	92.6		75 - 125
1,3-Dichloropropane	50.00	ND	46.3	92.7		75 - 125
2,2-Dichloropropane	50.00	ND	36.6	73.2		70 - 135
1,1-Dichloropropene	50.00	ND	45.1	90.2		75 - 130
cis-1,3-Dichloropropene	50.00	ND	40.8	81.6		70 - 130
trans-1,3-Dichloropropene	50.00	ND	45.8	91.5		55 - 140
Ethylbenzene	50.00	ND	53.7	107		75 - 125
Hexachlorobutadiene	50.00	ND	60.1	120		50 - 140
2-Hexanone	100.0	ND	74.7	74.7		55 - 130
Isopropylbenzene	50.00	ND	57.7	115		75 - 125
p-Isopropyltoluene	50.00	ND	59.2	118		75 - 130
Methylene chloride	50.00	ND	50.2	100		55 - 140
Naphthalene	50.00	ND	51.7	103		55 - 140
4-Methyl-2-pentanone	100.0	ND	74.5	74.5		60 - 135
Methyl t-Butyl Ether	50.00	ND	43.3	86.6		65 - 125
n-Propylbenzene	50.00	ND	46.9	93.8		70 - 130
Styrene	50.00	ND	56.7	113		65 - 135
1,1,2,2-Tetrachloroethane	50.00	ND	33.9	67.7		65 - 130
1,1,1,2-Tetrachloroethane	50.00	ND	60.2	120		80 - 130
Tetrachloroethene	50.00	ND	61.2	122		45 - 150
Toluene	50.00	ND	51.8	104		75 - 120
1,2,3-Trichlorobenzene	50.00	ND	58.7	117		55 - 140
1,2,4-Trichlorobenzene	50.00	ND	60.2	120		65 - 135
1,1,2-Trichloroethane	50.00	ND	48.7	97.3		75 - 125
1,1,1-Trichloroethane	50.00	ND	45.5	91.0		65 - 130
Trichloroethene	50.00	ND	48.4	96.9		70 - 125
Trichlorofluoromethane	50.00	ND	48.5	97.1		60 - 145
1,2,3-Trichloropropane	50.00	ND	49.5	98.9		75 - 125
1,3,5-Trimethylbenzene	50.00	ND	47.0	94.0		75 - 130
1,2,4-Trimethylbenzene	50.00	ND	52.1	104		75 - 130
Vinyl chloride	50.00	ND	39.9	79.8		50 - 145
Xylenes (total)	150.0	ND	167	111		75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K09002

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	75.3	75.3	4.70		30	40 - 140
Benzene	50.00	47.0	94.0	6.42		30	80 - 120
Bromobenzene	50.00	44.3	88.6	3.33		30	75 - 125
Bromochloromethane	50.00	52.6	105	2.57		30	65 - 130
Bromodichloromethane	50.00	46.9	93.7	4.30		30	75 - 120
Bromoform	50.00	50.6	101	3.32		30	70 - 130
Bromomethane	50.00	40.6	81.2	2.32		30	30 - 145
n-Butylbenzene	50.00	52.0	104	3.59		30	70 - 135
2-Butanone	100.0	69.3	69.3	2.01		30	30 - 150
sec-Butylbenzene	50.00	50.6	101	5.08		30	70 - 125
tert-Butylbenzene	50.00	52.5	105	4.87		30	70 - 130
Carbon disulfide	50.00	57.0	114	2.61		30	35 - 160
Carbon tetrachloride	50.00	46.6	93.3	6.15		30	65 - 140
Chlorobenzene	50.00	58.5	117	1.38		30	80 - 120
Chloroethane	50.00	47.0	94.0	4.09		30	60 - 135
Chloroform	50.00	41.6	83.2	6.20		30	65 - 135
Chloromethane	50.00	44.2	88.3	3.82		30	40 - 125
2-Chlorotoluene	50.00	39.7	79.3	5.04		30	75 - 125
4-Chlorotoluene	50.00	42.8	85.5	3.45		30	75 - 130
Dibromochloromethane	50.00	59.9	120	1.99		30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	44.2	88.4	2.85		30	50 - 130
1,2-Dibromoethane (EDB)	50.00	52.7	105	2.01		30	80 - 120
Dibromomethane	50.00	43.9	87.8	2.85		30	75 - 125
1,2-Dichlorobenzene	50.00	49.2	98.5	1.01		30	70 - 120
1,3-Dichlorobenzene	50.00	47.8	95.6	2.83		30	75 - 125
1,4-Dichlorobenzene	50.00	45.6	91.2	2.51		30	75 - 125
Dichlorodifluoromethane	50.00	45.7	91.4	4.07		30	30 - 155
1,1-Dichloroethane	50.00	45.3	90.6	7.95		30	70 - 135
1,2-Dichloroethane	50.00	38.5	77.1	2.31		30	70 - 130
1,1-Dichloroethene	50.00	57.7	115	2.16		30	70 - 130
cis-1,2-Dichloroethene	50.00	46.1	92.2	2.02		30	70 - 125
trans-1,2-Dichloroethene	50.00	49.8	99.7	4.51		30	60 - 140
1,2-Dichloropropane	50.00	43.4	86.8	6.46		30	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K09002

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichloropropane	50.00	45.4	90.8	2.01		30	75 - 125
2,2-Dichloropropane	50.00	34.3	68.6	6.43	*	30	70 - 135
1,1-Dichloropropene	50.00	43.2	86.4	4.30		30	75 - 130
cis-1,3-Dichloropropene	50.00	39.7	79.3	2.76		30	70 - 130
trans-1,3-Dichloropropene	50.00	45.0	90.0	1.61		30	55 - 140
Ethylbenzene	50.00	51.9	104	3.41		30	75 - 125
Hexachlorobutadiene	50.00	61.8	124	2.79		30	50 - 140
2-Hexanone	100.0	74.9	74.9	0.321		30	55 - 130
Isopropylbenzene	50.00	56.7	113	1.87		30	75 - 125
p-Isopropyltoluene	50.00	56.1	112	5.27		30	75 - 130
Methylene chloride	50.00	51.0	102	1.52		30	55 - 140
Naphthalene	50.00	57.9	116	11.3		30	55 - 140
4-Methyl-2-pentanone	100.0	75.7	75.7	1.53		30	60 - 135
Methyl t-Butyl Ether	50.00	43.2	86.5	0.139		30	65 - 125
n-Propylbenzene	50.00	44.2	88.3	5.97		30	70 - 130
Styrene	50.00	56.9	114	0.335		30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	33.8	67.5	0.355		30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	60.7	121	0.827		30	80 - 130
Tetrachloroethene	50.00	60.3	121	1.55		30	45 - 150
Toluene	50.00	50.8	102	1.95		30	75 - 120
1,2,3-Trichlorobenzene	50.00	65.5	131	11.0		30	55 - 140
1,2,4-Trichlorobenzene	50.00	64.2	128	6.29		30	65 - 135
1,1,2-Trichloroethane	50.00	48.3	96.7	0.701		30	75 - 125
1,1,1-Trichloroethane	50.00	43.1	86.3	5.32		30	65 - 130
Trichloroethene	50.00	46.0	92.0	5.14		30	70 - 125
Trichlorofluoromethane	50.00	47.6	95.3	1.87		30	60 - 145
1,2,3-Trichloropropane	50.00	51.4	103	3.92		30	75 - 125
1,3,5-Trimethylbenzene	50.00	44.4	88.9	5.58		30	75 - 130
1,2,4-Trimethylbenzene	50.00	51.2	102	1.84		30	75 - 130
Vinyl chloride	50.00	36.9	73.8	7.79		30	50 - 145
Xylenes (total)	150.0	164	109	1.64		30	75 - 130

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K03001 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0786	1210292-01	11/03/12 10:21	5.00	5.00
GW0787	1210292-03	11/03/12 10:49	5.00	5.00
GW0788	1210292-05	11/03/12 11:17	5.00	5.00
GW0848	1210292-07	11/03/12 16:23	5.00	5.00
GW0849	1210292-09	11/03/12 16:50	5.00	5.00
GW0850	1210292-11	11/03/12 11:45	5.00	5.00
Blank	2K03001-BLK1	11/03/12 08:30	5.00	5.00
LCS	2K03001-BS1	11/03/12 07:07	5.00	5.00
GW0849	2K03001-MS1	11/03/12 17:18	5.00	5.00
GW0849	2K03001-MSD1	11/03/12 17:46	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K03002 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8060-AB	1211036-23	11/04/12 03:27	5.00	5.00
GW8061-AB	1211036-24	11/04/12 03:55	5.00	5.00
GW8239-TB	1211036-25	11/04/12 04:23	5.00	5.00
Blank	2K03002-BLK1	11/03/12 21:00	5.00	5.00
LCS	2K03002-BS1	11/03/12 19:36	5.00	5.00
LCS Dup	2K03002-BSD1	11/04/12 05:46	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K07005 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0755	1211036-01	11/07/12 12:35	5.00	5.00
GW0762	1211036-03	11/07/12 16:52	5.00	5.00
GW0763	1211036-05	11/07/12 13:03	5.00	5.00
GW0802	1211036-07	11/07/12 13:31	5.00	5.00
GW0803	1211036-09	11/07/12 13:59	5.00	5.00
GW0804	1211036-11	11/07/12 14:26	5.00	5.00
GW0812	1211036-13	11/07/12 17:20	5.00	5.00
GW0814	1211036-17	11/07/12 14:57	5.00	5.00
GW0833	1211036-21	11/07/12 15:29	5.00	5.00
Blank	2K07005-BLK1	11/07/12 09:48	5.00	5.00
LCS	2K07005-BS1	11/07/12 08:25	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K08002 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0813	1211036-15	11/08/12 12:04	5.00	5.00
Blank	2K08002-BLK1	11/08/12 10:10	5.00	5.00
LCS	2K08002-BS1	11/08/12 08:46	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K09002 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0832	1211036-19	11/09/12 10:16	5.00	5.00
Blank	2K09002-BLK1	11/09/12 08:52	5.00	5.00
LCS	2K09002-BS1	11/09/12 07:29	5.00	5.00
GW0832	2K09002-MS1	11/09/12 18:09	5.00	5.00
GW0832	2K09002-MSD1	11/09/12 18:36	5.00	5.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K03001-BLK1 File ID: 1103BLK1.D

Sampled: Prepared: Analyzed: 11/03/12 08:30

Solids: Preparation: 5030B Dilution:

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	UY
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K03001-BLK1 File ID: 1103BLK1.D

Sampled: Prepared: Analyzed: 11/03/12 08:30

Solids: Preparation: 5030B Dilution:

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.12	97.1	75 - 120	
Dibromofluoromethane	30.00	29.29	97.6	85 - 115	
1,2-Dichloroethane-d4	30.00	30.72	102	70 - 120	
Toluene-d8	30.00	29.54	98.5	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K03001-BS1 File ID: 1103LCS1.D

Sampled: Prepared: Analyzed: 11/03/12 07:07

Solids: Preparation: 5030B Dilution:

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**71.4**	2.50	5.00	10.0	Y
71-43-2	Benzene	**49.1**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**41.4**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**52.8**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**47.6**	0.250	0.500	1.00	
75-25-2	Bromoform	**48.3**	0.250	0.500	1.00	
74-83-9	Bromomethane	**37.8**	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	**54.0**	0.250	0.500	1.00	
78-93-3	2-Butanone	**81.8**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**48.0**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**51.8**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**51.7**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**48.6**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**56.2**	0.250	0.500	1.00	
75-00-3	Chloroethane	**43.9**	0.500	1.00	2.00	
67-66-3	Chloroform	**43.6**	0.250	0.500	1.00	
74-87-3	Chloromethane	**42.3**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**39.2**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**42.9**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**55.2**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**45.8**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**50.6**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**45.4**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**49.2**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**48.0**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**45.8**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**46.4**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**46.1**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**40.5**	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	**51.4**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**46.9**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**48.8**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**46.6**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**46.7**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**42.8**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**45.5**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**43.0**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**46.1**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**49.6**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**59.0**	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K03001-BS1 | File ID: 1103LCS1.D

Sampled: | Prepared: | Analyzed: 11/03/12 07:07

Solids: | Preparation: 5030B | Dilution:

Batch: 2K03001 | Sequence: 2K31008 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**82.6**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**52.9**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**56.3**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**45.5**	0.500	1.00	2.00	
91-20-3	Naphthalene	**55.2**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**87.8**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**45.3**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**44.4**	0.250	0.500	1.00	
100-42-5	Styrene	**55.8**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**34.5**	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	**55.4**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**56.5**	0.250	0.500	1.00	
108-88-3	Toluene	**48.7**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**60.8**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**61.7**	0.250	0.500	2.00	X
79-00-5	1,1,2-Trichloroethane	**46.0**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**43.5**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**47.4**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**43.2**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**48.6**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**42.4**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**49.4**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**35.4**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**154**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.69	102	75 - 120	
Dibromofluoromethane	30.00	29.37	97.9	85 - 115	
1,2-Dichloroethane-d4	30.00	32.18	107	70 - 120	
Toluene-d8	30.00	31.52	105	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K03001-MS1 File ID: 1029209M.D

Sampled: Prepared: Analyzed: 11/03/12 17:18

Solids: Preparation: 5030B Dilution:

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**368**	12.5	25.0	50.0	YD
71-43-2	Benzene	**256**	1.25	2.50	5.00	D
108-86-1	Bromobenzene	**215**	1.25	2.50	5.00	D
74-97-5	Bromochloromethane	**272**	1.25	2.50	5.00	D
75-27-4	Bromodichloromethane	**249**	1.25	2.50	5.00	D
75-25-2	Bromoform	**244**	1.25	2.50	5.00	D
74-83-9	Bromomethane	**165**	2.50	5.00	10.0	YD
104-51-8	n-Butylbenzene	**257**	1.25	2.50	5.00	D
78-93-3	2-Butanone	**414**	12.5	25.0	50.0	D
135-98-8	sec-Butylbenzene	**239**	1.25	2.50	5.00	D
98-06-6	tert-Butylbenzene	**261**	1.25	2.50	5.00	D
75-15-0	Carbon disulfide	**266**	1.25	2.50	5.00	D
56-23-5	Carbon tetrachloride	**248**	1.25	2.50	5.00	D
108-90-7	Chlorobenzene	**282**	1.25	2.50	5.00	D
75-00-3	Chloroethane	**234**	2.50	5.00	10.0	D
67-66-3	Chloroform	**226**	1.25	2.50	5.00	D
74-87-3	Chloromethane	**217**	1.25	2.50	5.00	D
95-49-8	2-Chlorotoluene	**198**	1.25	2.50	5.00	D
106-43-4	4-Chlorotoluene	**211**	1.25	2.50	5.00	D
124-48-1	Dibromochloromethane	**280**	1.25	2.50	5.00	D
96-12-8	1,2-Dibromo-3-chloropropane	**230**	2.50	5.00	10.0	D
106-93-4	1,2-Dibromoethane (EDB)	**259**	1.25	2.50	5.00	D
74-95-3	Dibromomethane	**235**	1.25	2.50	5.00	D
95-50-1	1,2-Dichlorobenzene	**248**	1.25	2.50	5.00	D
541-73-1	1,3-Dichlorobenzene	**239**	1.25	2.50	5.00	D
106-46-7	1,4-Dichlorobenzene	**229**	1.25	2.50	5.00	D
75-71-8	Dichlorodifluoromethane	**231**	2.50	5.00	10.0	D
75-34-3	1,1-Dichloroethane	**242**	1.25	2.50	5.00	D
107-06-2	1,2-Dichloroethane	**210**	1.25	2.50	5.00	D
75-35-4	1,1-Dichloroethene	**275**	1.25	2.50	5.00	D
156-59-2	cis-1,2-Dichloroethene	**241**	1.25	2.50	5.00	D
156-60-5	trans-1,2-Dichloroethene	**248**	1.25	2.50	5.00	D
78-87-5	1,2-Dichloropropane	**240**	1.25	2.50	5.00	D
142-28-9	1,3-Dichloropropane	**234**	1.25	2.50	5.00	D
594-20-7	2,2-Dichloropropane	**191**	1.25	2.50	5.00	D
563-58-6	1,1-Dichloropropene	**236**	1.25	2.50	5.00	D
10061-01-5	cis-1,3-Dichloropropene	**215**	1.25	2.50	5.00	D
10061-02-6	trans-1,3-Dichloropropene	**229**	1.25	2.50	5.00	D
100-41-4	Ethylbenzene	**249**	1.25	2.50	5.00	D
87-68-3	Hexachlorobutadiene	**257**	1.25	2.50	10.0	D

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K03001-MS1 File ID: 1029209M.D

Sampled: Prepared: Analyzed: 11/03/12 17:18

Solids: Preparation: 5030B Dilution:

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**407**	6.25	12.5	25.0	D
98-82-8	Isopropylbenzene	**267**	1.25	2.50	5.00	D
99-87-6	p-Isopropyltoluene	**278**	1.25	2.50	5.00	D
75-09-2	Methylene chloride	**238**	2.50	5.00	10.0	D
91-20-3	Naphthalene	**264**	1.25	2.50	10.0	D
108-10-1	4-Methyl-2-pentanone	**451**	6.25	12.5	25.0	D
1634-04-4	Methyl t-Butyl Ether	**242**	1.25	2.50	5.00	D
103-65-1	n-Propylbenzene	**221**	1.25	2.50	5.00	D
100-42-5	Styrene	**282**	1.25	2.50	5.00	D
79-34-5	1,1,2,2-Tetrachloroethane	**179**	1.25	2.50	5.00	YD
630-20-6	1,1,1,2-Tetrachloroethane	**278**	1.25	2.50	5.00	D
127-18-4	Tetrachloroethene	**281**	1.25	2.50	5.00	D
108-88-3	Toluene	**243**	1.25	2.50	5.00	D
87-61-6	1,2,3-Trichlorobenzene	**283**	1.25	2.50	10.0	D
120-82-1	1,2,4-Trichlorobenzene	**292**	1.25	2.50	10.0	XD
79-00-5	1,1,2-Trichloroethane	**242**	1.25	2.50	5.00	D
71-55-6	1,1,1-Trichloroethane	**225**	1.25	2.50	5.00	D
79-01-6	Trichloroethene	**245**	1.25	2.50	5.00	D
75-69-4	Trichlorofluoromethane	**214**	2.50	5.00	10.0	D
96-18-4	1,2,3-Trichloropropane	**248**	2.50	5.00	10.0	D
108-67-8	1,3,5-Trimethylbenzene	**213**	1.25	2.50	5.00	D
95-63-6	1,2,4-Trimethylbenzene	**248**	1.25	2.50	5.00	D
75-01-4	Vinyl chloride	**187**	1.25	2.50	5.00	D
1330-20-7	Xylenes (total)	**784**	3.75	7.50	15.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.46	102	75 - 120	
Dibromofluoromethane	30.00	30.35	101	85 - 115	
1,2-Dichloroethane-d4	30.00	32.16	107	70 - 120	
Toluene-d8	30.00	31.16	104	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K03001-MSD1 File ID: 1029209S.D

Sampled: Prepared: Analyzed: 11/03/12 17:46

Solids: Preparation: 5030B Dilution:

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**363**	12.5	25.0	50.0	YD
71-43-2	Benzene	**260**	1.25	2.50	5.00	D
108-86-1	Bromobenzene	**219**	1.25	2.50	5.00	D
74-97-5	Bromochloromethane	**279**	1.25	2.50	5.00	D
75-27-4	Bromodichloromethane	**250**	1.25	2.50	5.00	D
75-25-2	Bromoform	**254**	1.25	2.50	5.00	D
74-83-9	Bromomethane	**193**	2.50	5.00	10.0	YD
104-51-8	n-Butylbenzene	**257**	1.25	2.50	5.00	D
78-93-3	2-Butanone	**405**	12.5	25.0	50.0	D
135-98-8	sec-Butylbenzene	**240**	1.25	2.50	5.00	D
98-06-6	tert-Butylbenzene	**264**	1.25	2.50	5.00	D
75-15-0	Carbon disulfide	**278**	1.25	2.50	5.00	D
56-23-5	Carbon tetrachloride	**260**	1.25	2.50	5.00	D
108-90-7	Chlorobenzene	**296**	1.25	2.50	5.00	D
75-00-3	Chloroethane	**238**	2.50	5.00	10.0	D
67-66-3	Chloroform	**228**	1.25	2.50	5.00	D
74-87-3	Chloromethane	**224**	1.25	2.50	5.00	D
95-49-8	2-Chlorotoluene	**196**	1.25	2.50	5.00	D
106-43-4	4-Chlorotoluene	**215**	1.25	2.50	5.00	D
124-48-1	Dibromochloromethane	**293**	1.25	2.50	5.00	D
96-12-8	1,2-Dibromo-3-chloropropane	**232**	2.50	5.00	10.0	D
106-93-4	1,2-Dibromoethane (EDB)	**266**	1.25	2.50	5.00	D
74-95-3	Dibromomethane	**237**	1.25	2.50	5.00	D
95-50-1	1,2-Dichlorobenzene	**253**	1.25	2.50	5.00	D
541-73-1	1,3-Dichlorobenzene	**247**	1.25	2.50	5.00	D
106-46-7	1,4-Dichlorobenzene	**236**	1.25	2.50	5.00	D
75-71-8	Dichlorodifluoromethane	**243**	2.50	5.00	10.0	D
75-34-3	1,1-Dichloroethane	**244**	1.25	2.50	5.00	D
107-06-2	1,2-Dichloroethane	**210**	1.25	2.50	5.00	D
75-35-4	1,1-Dichloroethene	**289**	1.25	2.50	5.00	D
156-59-2	cis-1,2-Dichloroethene	**242**	1.25	2.50	5.00	D
156-60-5	trans-1,2-Dichloroethene	**258**	1.25	2.50	5.00	D
78-87-5	1,2-Dichloropropane	**247**	1.25	2.50	5.00	D
142-28-9	1,3-Dichloropropane	**233**	1.25	2.50	5.00	D
594-20-7	2,2-Dichloropropane	**191**	1.25	2.50	5.00	D
563-58-6	1,1-Dichloropropene	**242**	1.25	2.50	5.00	D
10061-01-5	cis-1,3-Dichloropropene	**218**	1.25	2.50	5.00	D
10061-02-6	trans-1,3-Dichloropropene	**227**	1.25	2.50	5.00	D
100-41-4	Ethylbenzene	**260**	1.25	2.50	5.00	D
87-68-3	Hexachlorobutadiene	**296**	1.25	2.50	10.0	D

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K03001-MSD1 File ID: 1029209S.D

Sampled: Prepared: Analyzed: 11/03/12 17:46

Solids: Preparation: 5030B Dilution:

Batch: 2K03001 Sequence: 2K31008 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**401**	6.25	12.5	25.0	D
98-82-8	Isopropylbenzene	**272**	1.25	2.50	5.00	D
99-87-6	p-Isopropyltoluene	**281**	1.25	2.50	5.00	D
75-09-2	Methylene chloride	**245**	2.50	5.00	10.0	D
91-20-3	Naphthalene	**286**	1.25	2.50	10.0	D
108-10-1	4-Methyl-2-pentanone	**435**	6.25	12.5	25.0	D
1634-04-4	Methyl t-Butyl Ether	**239**	1.25	2.50	5.00	D
103-65-1	n-Propylbenzene	**221**	1.25	2.50	5.00	D
100-42-5	Styrene	**290**	1.25	2.50	5.00	D
79-34-5	1,1,2,2-Tetrachloroethane	**174**	1.25	2.50	5.00	YD
630-20-6	1,1,1,2-Tetrachloroethane	**296**	1.25	2.50	5.00	D
127-18-4	Tetrachloroethene	**307**	1.25	2.50	5.00	D
108-88-3	Toluene	**250**	1.25	2.50	5.00	D
87-61-6	1,2,3-Trichlorobenzene	**320**	1.25	2.50	10.0	D
120-82-1	1,2,4-Trichlorobenzene	**316**	1.25	2.50	10.0	XD
79-00-5	1,1,2-Trichloroethane	**247**	1.25	2.50	5.00	D
71-55-6	1,1,1-Trichloroethane	**231**	1.25	2.50	5.00	D
79-01-6	Trichloroethene	**255**	1.25	2.50	5.00	D
75-69-4	Trichlorofluoromethane	**232**	2.50	5.00	10.0	D
96-18-4	1,2,3-Trichloropropane	**252**	2.50	5.00	10.0	D
108-67-8	1,3,5-Trimethylbenzene	**217**	1.25	2.50	5.00	D
95-63-6	1,2,4-Trimethylbenzene	**245**	1.25	2.50	5.00	D
75-01-4	Vinyl chloride	**197**	1.25	2.50	5.00	D
1330-20-7	Xylenes (total)	**799**	3.75	7.50	15.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.94	103	75 - 120	
Dibromofluoromethane	30.00	29.78	99.3	85 - 115	
1,2-Dichloroethane-d4	30.00	30.49	102	70 - 120	
Toluene-d8	30.00	32.10	107	85 - 120	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K03002-BLK1 File ID: 1103BLKE.D

Sampled: Prepared: Analyzed: 11/03/12 21:00

Solids: Preparation: 5030B Dilution:

Batch: 2K03002 Sequence: 2K31009 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	UY
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	UYQ
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K03002-BLK1 File ID: 1103BLKE.D

Sampled: Prepared: Analyzed: 11/03/12 21:00

Solids: Preparation: 5030B Dilution:

Batch: 2K03002 Sequence: 2K31009 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.41	98.0	75 - 120	
Dibromofluoromethane	30.00	29.56	98.5	85 - 115	
1,2-Dichloroethane-d4	30.00	31.54	105	70 - 120	
Toluene-d8	30.00	29.83	99.4	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K03002-BS1 | File ID: 1103LCSE.D

Sampled: | Prepared: | Analyzed: 11/03/12 19:36

Solids: | Preparation: 5030B | Dilution:

Batch: 2K03002 | Sequence: 2K31009 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**69.6**	2.50	5.00	10.0	Y
71-43-2	Benzene	**50.4**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**42.0**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**55.3**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**48.6**	0.250	0.500	1.00	
75-25-2	Bromoform	**49.3**	0.250	0.500	1.00	
74-83-9	Bromomethane	**39.1**	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	**51.4**	0.250	0.500	1.00	
78-93-3	2-Butanone	**82.6**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**48.0**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**51.6**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**51.6**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**50.1**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**57.6**	0.250	0.500	1.00	
75-00-3	Chloroethane	**45.6**	0.500	1.00	2.00	
67-66-3	Chloroform	**44.2**	0.250	0.500	1.00	
74-87-3	Chloromethane	**43.0**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**38.2**	0.250	0.500	1.00	Y
106-43-4	4-Chlorotoluene	**41.7**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**57.2**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**43.3**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**52.6**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**46.8**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**48.8**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**48.2**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**45.5**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**47.1**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**46.8**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**40.8**	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	**52.2**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**48.2**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**46.5**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**47.6**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**47.1**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**36.6**	0.250	0.500	1.00	Y
563-58-6	1,1-Dichloropropene	**46.4**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**43.3**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**45.0**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**51.6**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**59.8**	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K03002-BS1 | File ID: 1103LCSE.D

Sampled: | Prepared: | Analyzed: 11/03/12 19:36

Solids: | Preparation: 5030B | Dilution:

Batch: 2K03002 | Sequence: 2K31009 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**79.0**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**54.0**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**55.8**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**45.9**	0.500	1.00	2.00	
91-20-3	Naphthalene	**56.9**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**84.0**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**46.4**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**42.6**	0.250	0.500	1.00	
100-42-5	Styrene	**56.9**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**33.7**	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	**57.9**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**60.0**	0.250	0.500	1.00	
108-88-3	Toluene	**48.9**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**61.8**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**63.0**	0.250	0.500	2.00	X
79-00-5	1,1,2-Trichloroethane	**48.2**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**45.0**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**49.1**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**44.3**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**49.6**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**42.4**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**48.9**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**38.3**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**156**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.02	103	75 - 120	
Dibromofluoromethane	30.00	29.26	97.5	85 - 115	
1,2-Dichloroethane-d4	30.00	31.07	104	70 - 120	
Toluene-d8	30.00	31.78	106	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K03002-BSD1 File ID: 1103LCDE.D

Sampled: Prepared: Analyzed: 11/04/12 05:46

Solids: Preparation: 5030B Dilution:

Batch: 2K03002 Sequence: 2K31009 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**74.8**	2.50	5.00	10.0	Y
71-43-2	Benzene	**50.1**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**41.6**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**54.6**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**48.6**	0.250	0.500	1.00	
75-25-2	Bromoform	**49.2**	0.250	0.500	1.00	
74-83-9	Bromomethane	**35.6**	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	**49.5**	0.250	0.500	1.00	
78-93-3	2-Butanone	**85.8**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**46.6**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**51.4**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**51.5**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**47.8**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**56.8**	0.250	0.500	1.00	
75-00-3	Chloroethane	**45.0**	0.500	1.00	2.00	
67-66-3	Chloroform	**44.0**	0.250	0.500	1.00	
74-87-3	Chloromethane	**43.7**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**38.9**	0.250	0.500	1.00	Y
106-43-4	4-Chlorotoluene	**41.9**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**55.8**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**47.1**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**52.0**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**46.1**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**49.3**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**47.2**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**45.0**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**44.0**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**46.4**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**40.7**	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	**53.3**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**47.0**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**48.9**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**47.3**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**45.6**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**29.6**	0.250	0.500	1.00	Y
563-58-6	1,1-Dichloropropene	**45.6**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**40.5**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**43.6**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**49.5**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**51.6**	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K03002-BSD1	File ID:	1103LCDE.D
Sampled:		Prepared:		Analyzed:	11/04/12 05:46
Solids:		Preparation:	5030B	Dilution:	

Batch:	2K03002	Sequence:	2K31009	Calibration:	2291001	Instrument:	MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**83.5**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**51.8**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**53.4**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**47.0**	0.500	1.00	2.00	
91-20-3	Naphthalene	**52.3**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**88.4**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**46.8**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**42.5**	0.250	0.500	1.00	
100-42-5	Styrene	**54.4**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**35.2**	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	**56.5**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**55.7**	0.250	0.500	1.00	
108-88-3	Toluene	**48.4**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**59.0**	0.250	0.500	2.00	
120-82-1	1,2,4-Trichlorobenzene	**58.8**	0.250	0.500	2.00	X
79-00-5	1,1,2-Trichloroethane	**49.0**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**43.8**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**48.9**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**41.8**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**51.1**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**41.8**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**49.0**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**35.5**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**152**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.91	99.7	75 - 120	
Dibromofluoromethane	30.00	28.93	96.4	85 - 115	
1,2-Dichloroethane-d4	30.00	30.81	103	70 - 120	
Toluene-d8	30.00	31.11	104	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K07005-BLK1 File ID: 1107BLK1.D

Sampled: Prepared: Analyzed: 11/07/12 09:48

Solids: Preparation: 5030B Dilution:

Batch: 2K07005 Sequence: 2K31303 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	UX
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	UX
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2K07005-BLK1
File ID: 1107BLK1.D
Sampled:
Prepared:
Analyzed: 11/07/12 09:48
Solids:
Preparation: 5030B
Dilution:
Batch: 2K07005
Sequence: 2K31303
Calibration: 2291001
Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.36	97.9	75 - 120	
Dibromofluoromethane	30.00	28.07	93.6	85 - 115	
1,2-Dichloroethane-d4	30.00	30.47	102	70 - 120	
Toluene-d8	30.00	30.41	101	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K07005-BS1 | File ID: 1107LCS1.D

Sampled: | Prepared: | Analyzed: 11/07/12 08:25

Solids: | Preparation: 5030B | Dilution:

Batch: 2K07005 | Sequence: 2K31303 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**80.0**	2.50	5.00	10.0	
71-43-2	Benzene	**51.7**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**45.8**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**49.5**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**52.4**	0.250	0.500	1.00	
75-25-2	Bromoform	**47.7**	0.250	0.500	1.00	
74-83-9	Bromomethane	**39.0**	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	**56.2**	0.250	0.500	1.00	
78-93-3	2-Butanone	**94.6**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**53.4**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**54.9**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**54.8**	0.250	0.500	1.00	X
56-23-5	Carbon tetrachloride	**51.3**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**54.2**	0.250	0.500	1.00	
75-00-3	Chloroethane	**46.4**	0.500	1.00	2.00	
67-66-3	Chloroform	**47.5**	0.250	0.500	1.00	
74-87-3	Chloromethane	**43.4**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**41.7**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**44.4**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**54.1**	0.250	0.500	1.00	X
96-12-8	1,2-Dibromo-3-chloropropane	**49.3**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**48.9**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**47.0**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**50.9**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**50.1**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**47.5**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**48.7**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**49.1**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**45.5**	0.250	0.500	1.00	Y
75-35-4	1,1-Dichloroethene	**55.7**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**49.8**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**49.7**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**49.0**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**48.8**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**47.6**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**49.3**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**47.4**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**52.1**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**52.0**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**63.6**	0.250	0.500	2.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K07005-BS1 | File ID: 1107LCS1.D

Sampled: | Prepared: | Analyzed: 11/07/12 08:25

Solids: | Preparation: 5030B | Dilution:

Batch: 2K07005 | Sequence: 2K31303 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**98.0**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**50.6**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**59.4**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**46.8**	0.500	1.00	2.00	
91-20-3	Naphthalene	**58.0**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**105**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**47.5**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**47.1**	0.250	0.500	1.00	
100-42-5	Styrene	**56.5**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**35.3**	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	**52.8**	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	**49.2**	0.250	0.500	1.00	X
108-88-3	Toluene	**51.1**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**64.9**	0.250	0.500	2.00	X
120-82-1	1,2,4-Trichlorobenzene	**65.8**	0.250	0.500	2.00	X
79-00-5	1,1,2-Trichloroethane	**48.8**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**47.8**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**47.3**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**47.9**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**46.1**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**46.5**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**52.7**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**37.8**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**165**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	26.88	89.6	75 - 120	
Dibromofluoromethane	30.00	28.59	95.3	85 - 115	
1,2-Dichloroethane-d4	30.00	30.54	102	70 - 120	
Toluene-d8	30.00	29.42	98.1	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K08002-BLK1 File ID: 1108BLK1.D

Sampled: Prepared: Analyzed: 11/08/12 10:10

Solids: Preparation: 5030B Dilution:

Batch: 2K08002 Sequence: 2K31306 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	UY
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	UX

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K08002-BLK1 File ID: 1108BLK1.D

Sampled: Prepared: Analyzed: 11/08/12 10:10

Solids: Preparation: 5030B Dilution:

Batch: 2K08002 Sequence: 2K31306 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	UX
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	UX
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.04	93.5	75 - 120	
Dibromofluoromethane	30.00	28.16	93.9	85 - 115	
1,2-Dichloroethane-d4	30.00	30.55	102	70 - 120	
Toluene-d8	30.00	31.28	104	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K08002-BS1 | File ID: 1108LCS1.D

Sampled: | Prepared: | Analyzed: 11/08/12 08:46

Solids: | Preparation: 5030B | Dilution:

Batch: 2K08002 | Sequence: 2K31306 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**92.0**	2.50	5.00	10.0	
71-43-2	Benzene	**46.1**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**43.8**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**53.4**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**46.2**	0.250	0.500	1.00	
75-25-2	Bromoform	**53.8**	0.250	0.500	1.00	
74-83-9	Bromomethane	**40.0**	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	**50.4**	0.250	0.500	1.00	
78-93-3	2-Butanone	**87.8**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**49.9**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**51.5**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**56.0**	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	**46.4**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**57.4**	0.250	0.500	1.00	
75-00-3	Chloroethane	**45.6**	0.500	1.00	2.00	
67-66-3	Chloroform	**40.9**	0.250	0.500	1.00	
74-87-3	Chloromethane	**42.4**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**39.0**	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	**41.8**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**60.1**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**49.5**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**53.6**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**44.8**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**48.3**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**47.7**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**44.7**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**46.7**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**42.5**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**38.7**	0.250	0.500	1.00	Y
75-35-4	1,1-Dichloroethene	**55.3**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**45.6**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**48.1**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**43.1**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**47.0**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**38.0**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**42.3**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**40.8**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**48.0**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**51.0**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**62.1**	0.250	0.500	2.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K08002-BS1 | File ID: 1108LCS1.D

Sampled: | Prepared: | Analyzed: 11/08/12 08:46

Solids: | Preparation: 5030B | Dilution:

Batch: 2K08002 | Sequence: 2K31306 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**95.2**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**56.3**	0.250	0.500	1.00	X
99-87-6	p-Isopropyltoluene	**54.9**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**49.5**	0.500	1.00	2.00	
91-20-3	Naphthalene	**53.1**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**91.5**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**44.7**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**43.7**	0.250	0.500	1.00	
100-42-5	Styrene	**56.7**	0.250	0.500	1.00	X
79-34-5	1,1,2,2-Tetrachloroethane	**34.8**	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	**60.4**	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	**60.5**	0.250	0.500	1.00	
108-88-3	Toluene	**49.8**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**61.8**	0.250	0.500	2.00	X
120-82-1	1,2,4-Trichlorobenzene	**62.7**	0.250	0.500	2.00	X
79-00-5	1,1,2-Trichloroethane	**48.9**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**42.6**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**45.2**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**45.8**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**54.3**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**43.1**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**48.4**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**35.3**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**160**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.76	103	75 - 120	
Dibromofluoromethane	30.00	28.67	95.6	85 - 115	
1,2-Dichloroethane-d4	30.00	31.85	106	70 - 120	
Toluene-d8	30.00	32.53	108	85 - 120	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K09002-BLK1 File ID: 1109BLK1.D

Sampled: Prepared: Analyzed: 11/09/12 08:52

Solids: Preparation: 5030B Dilution:

Batch: 2K09002 Sequence: 2K31408 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	UX
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	UX
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	UY
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	UY
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	2.00	UX

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K09002-BLK1 File ID: 1109BLK1.D

Sampled: Prepared: Analyzed: 11/09/12 08:52

Solids: Preparation: 5030B Dilution:

Batch: 2K09002 Sequence: 2K31408 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	2.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	UY
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	UX
127-18-4	Tetrachloroethene		0.250	0.500	1.00	UX
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	2.00	UX
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	2.00	UX
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.45	98.2	75 - 120	
Dibromofluoromethane	30.00	28.01	93.4	85 - 115	
1,2-Dichloroethane-d4	30.00	30.59	102	70 - 120	
Toluene-d8	30.00	30.74	102	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K09002-BS1 | File ID: 1109LCS1.D

Sampled: | Prepared: | Analyzed: 11/09/12 07:29

Solids: | Preparation: 5030B | Dilution:

Batch: 2K09002 | Sequence: 2K31408 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**88.0**	2.50	5.00	10.0	
71-43-2	Benzene	**47.1**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**43.7**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**52.4**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**46.5**	0.250	0.500	1.00	
75-25-2	Bromoform	**53.1**	0.250	0.500	1.00	
74-83-9	Bromomethane	**39.7**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**53.3**	0.250	0.500	1.00	X
78-93-3	2-Butanone	**90.8**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**50.8**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**52.5**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**51.0**	0.250	0.500	1.00	X
56-23-5	Carbon tetrachloride	**48.0**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**58.2**	0.250	0.500	1.00	
75-00-3	Chloroethane	**47.6**	0.500	1.00	2.00	
67-66-3	Chloroform	**41.8**	0.250	0.500	1.00	
74-87-3	Chloromethane	**44.5**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**39.5**	0.250	0.500	1.00	Y
106-43-4	4-Chlorotoluene	**42.6**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**60.8**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**49.4**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**53.7**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**43.9**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**48.6**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**46.9**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**45.1**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**46.2**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**44.2**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**37.9**	0.250	0.500	1.00	Y
75-35-4	1,1-Dichloroethene	**57.1**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**45.6**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**49.0**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**43.3**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**46.4**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**40.7**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**43.0**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**40.5**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**47.8**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**51.9**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**65.0**	0.250	0.500	2.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K09002-BS1 | File ID: 1109LCS1.D

Sampled: | Prepared: | Analyzed: 11/09/12 07:29

Solids: | Preparation: 5030B | Dilution:

Batch: 2K09002 | Sequence: 2K31408 | Calibration: 2291001 | Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**96.5**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**57.0**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**57.4**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**44.5**	0.500	1.00	2.00	
91-20-3	Naphthalene	**57.5**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**94.3**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**43.9**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**44.5**	0.250	0.500	1.00	
100-42-5	Styrene	**58.0**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**34.1**	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	**60.7**	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	**61.1**	0.250	0.500	1.00	X
108-88-3	Toluene	**50.8**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**66.9**	0.250	0.500	2.00	X
120-82-1	1,2,4-Trichlorobenzene	**65.8**	0.250	0.500	2.00	X
79-00-5	1,1,2-Trichloroethane	**49.4**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**43.8**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**45.7**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**47.1**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**54.7**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**44.5**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**50.2**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**36.0**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**163**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.97	107	75 - 120	
Dibromofluoromethane	30.00	28.58	95.3	85 - 115	
1,2-Dichloroethane-d4	30.00	31.37	105	70 - 120	
Toluene-d8	30.00	32.93	110	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K09002-MS1 File ID: 1103619M.D

Sampled: Prepared: Analyzed: 11/09/12 18:09

Solids: Preparation: 5030B Dilution:

Batch: 2K09002 Sequence: 2K31408 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**71.9**	2.50	5.00	10.0	
71-43-2	Benzene	**50.1**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**45.8**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**54.0**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**48.9**	0.250	0.500	1.00	
75-25-2	Bromoform	**48.9**	0.250	0.500	1.00	
74-83-9	Bromomethane	**39.7**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**53.9**	0.250	0.500	1.00	X
78-93-3	2-Butanone	**70.7**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**53.3**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**55.1**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**58.6**	0.250	0.500	1.00	X
56-23-5	Carbon tetrachloride	**49.6**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**59.3**	0.250	0.500	1.00	
75-00-3	Chloroethane	**49.0**	0.500	1.00	2.00	
67-66-3	Chloroform	**44.2**	0.250	0.500	1.00	
74-87-3	Chloromethane	**45.9**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**41.7**	0.250	0.500	1.00	Y
106-43-4	4-Chlorotoluene	**44.2**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**58.7**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**45.5**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**51.6**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**45.2**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**49.8**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**49.2**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**46.8**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**47.6**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**49.1**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**39.4**	0.250	0.500	1.00	Y
75-35-4	1,1-Dichloroethene	**59.0**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**47.0**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**52.1**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**46.3**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**46.3**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**36.6**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**45.1**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**40.8**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**45.8**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**53.7**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**60.1**	0.250	0.500	2.00	X

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K09002-MS1 File ID: 1103619M.D

Sampled: Prepared: Analyzed: 11/09/12 18:09

Solids: Preparation: 5030B Dilution:

Batch: 2K09002 Sequence: 2K31408 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**74.7**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**57.7**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**59.2**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**50.2**	0.500	1.00	2.00	
91-20-3	Naphthalene	**51.7**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**74.5**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**43.3**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**46.9**	0.250	0.500	1.00	
100-42-5	Styrene	**56.7**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**33.9**	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	**60.2**	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	**61.2**	0.250	0.500	1.00	X
108-88-3	Toluene	**51.8**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**58.7**	0.250	0.500	2.00	X
120-82-1	1,2,4-Trichlorobenzene	**60.2**	0.250	0.500	2.00	X
79-00-5	1,1,2-Trichloroethane	**48.7**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**45.5**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**48.4**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**48.5**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**49.5**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**47.0**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**52.1**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**39.9**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**167**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.86	99.5	75 - 120	
Dibromofluoromethane	30.00	28.35	94.5	85 - 115	
1,2-Dichloroethane-d4	30.00	31.00	103	70 - 120	
Toluene-d8	30.00	31.76	106	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K09002-MSD1 File ID: 1103619S.D

Sampled: Prepared: Analyzed: 11/09/12 18:36

Solids: Preparation: 5030B Dilution:

Batch: 2K09002 Sequence: 2K31408 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	**75.3**	2.50	5.00	10.0	
71-43-2	Benzene	**47.0**	0.250	0.500	1.00	
108-86-1	Bromobenzene	**44.3**	0.250	0.500	1.00	
74-97-5	Bromochloromethane	**52.6**	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	**46.9**	0.250	0.500	1.00	
75-25-2	Bromoform	**50.6**	0.250	0.500	1.00	
74-83-9	Bromomethane	**40.6**	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	**52.0**	0.250	0.500	1.00	X
78-93-3	2-Butanone	**69.3**	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	**50.6**	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	**52.5**	0.250	0.500	1.00	
75-15-0	Carbon disulfide	**57.0**	0.250	0.500	1.00	X
56-23-5	Carbon tetrachloride	**46.6**	0.250	0.500	1.00	
108-90-7	Chlorobenzene	**58.5**	0.250	0.500	1.00	
75-00-3	Chloroethane	**47.0**	0.500	1.00	2.00	
67-66-3	Chloroform	**41.6**	0.250	0.500	1.00	
74-87-3	Chloromethane	**44.2**	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	**39.7**	0.250	0.500	1.00	Y
106-43-4	4-Chlorotoluene	**42.8**	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	**59.9**	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	**44.2**	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	**52.7**	0.250	0.500	1.00	
74-95-3	Dibromomethane	**43.9**	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	**49.2**	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	**47.8**	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	**45.6**	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	**45.7**	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	**45.3**	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	**38.5**	0.250	0.500	1.00	Y
75-35-4	1,1-Dichloroethene	**57.7**	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	**46.1**	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	**49.8**	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	**43.4**	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	**45.4**	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	**34.3**	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	**43.2**	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	**39.7**	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	**45.0**	0.250	0.500	1.00	
100-41-4	Ethylbenzene	**51.9**	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	**61.8**	0.250	0.500	2.00	X

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2K09002-MSD1	File ID:	1103619S.D
Sampled:		Prepared:		Analyzed:	11/09/12 18:36
Solids:		Preparation:	5030B	Dilution:	

Batch: 2K09002 Sequence: 2K31408 Calibration: 2291001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	**74.9**	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	**56.7**	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	**56.1**	0.250	0.500	1.00	
75-09-2	Methylene chloride	**51.0**	0.500	1.00	2.00	
91-20-3	Naphthalene	**57.9**	0.250	0.500	2.00	
108-10-1	4-Methyl-2-pentanone	**75.7**	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	**43.2**	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	**44.2**	0.250	0.500	1.00	
100-42-5	Styrene	**56.9**	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	**33.8**	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	**60.7**	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	**60.3**	0.250	0.500	1.00	X
108-88-3	Toluene	**50.8**	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	**65.5**	0.250	0.500	2.00	X
120-82-1	1,2,4-Trichlorobenzene	**64.2**	0.250	0.500	2.00	X
79-00-5	1,1,2-Trichloroethane	**48.3**	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	**43.1**	0.250	0.500	1.00	
79-01-6	Trichloroethene	**46.0**	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	**47.6**	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	**51.4**	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	**44.4**	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	**51.2**	0.250	0.500	1.00	
75-01-4	Vinyl chloride	**36.9**	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	**164**	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.53	102	75 - 120	
Dibromofluoromethane	30.00	28.49	95.0	85 - 115	
1,2-Dichloroethane-d4	30.00	30.29	101	70 - 120	
Toluene-d8	30.00	32.29	108	85 - 120	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1012TUN2.D	Injection Date:	10/12/12
Instrument ID:	MS-VOA5	Injection Time:	14:29
Sequence:	2J29101	Lab Sample ID:	2J29101-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	26.6	PASS
75	30 - 60% of 95	50.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.98	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	75.5	PASS
175	5 - 9% of 174	7.42	PASS
176	95 - 101% of 174	95.6	PASS
177	5 - 9% of 176	6.6	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1012TUN3.D	Injection Date:	10/16/12
Instrument ID:	MS-VOA5	Injection Time:	13:45
Sequence:	2J29101	Lab Sample ID:	2J29101-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.7	PASS
75	30 - 60% of 95	49.1	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.69	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	77.7	PASS
175	5 - 9% of 174	7.11	PASS
176	95 - 101% of 174	97.4	PASS
177	5 - 9% of 176	6.57	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1103TUN1.D	Injection Date:	11/03/12
Instrument ID:	MS-VOA5	Injection Time:	06:11
Sequence:	2K31008	Lab Sample ID:	2K31008-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.2	PASS
75	30 - 60% of 95	46.1	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.09	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	81.8	PASS
175	5 - 9% of 174	7.87	PASS
176	95 - 101% of 174	96.7	PASS
177	5 - 9% of 176	6.71	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1103TUNE.D	Injection Date:	11/03/12
Instrument ID:	MS-VOA5	Injection Time:	18:41
Sequence:	2K31009	Lab Sample ID:	2K31009-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.9	PASS
75	30 - 60% of 95	44.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.68	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	84.9	PASS
175	5 - 9% of 174	8.15	PASS
176	95 - 101% of 174	95.7	PASS
177	5 - 9% of 176	6.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1107TUN1.D	Injection Date:	11/07/12
Instrument ID:	MS-VOA5	Injection Time:	07:27
Sequence:	2K31303	Lab Sample ID:	2K31303-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.3	PASS
75	30 - 60% of 95	43.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	92	PASS
175	5 - 9% of 174	8.06	PASS
176	95 - 101% of 174	96.8	PASS
177	5 - 9% of 176	6.86	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1108TUN1.D	Injection Date:	11/08/12
Instrument ID:	MS-VOA5	Injection Time:	07:49
Sequence:	2K31306	Lab Sample ID:	2K31306-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.1	PASS
75	30 - 60% of 95	43.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.94	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	99.3	PASS
175	5 - 9% of 174	5.92	PASS
176	95 - 101% of 174	97.7	PASS
177	5 - 9% of 176	6.35	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1109TUN1.D	Injection Date:	11/09/12
Instrument ID:	MS-VOA5	Injection Time:	06:32
Sequence:	2K31408	Lab Sample ID:	2K31408-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.7	PASS
75	30 - 60% of 95	47.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.82	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	81.9	PASS
175	5 - 9% of 174	7.79	PASS
176	95 - 101% of 174	98.5	PASS
177	5 - 9% of 176	6.56	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29101	Instrument:	MS-VOA5
Calibration:	2291001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2J29101-TUN1	1012TUN2.D	10/12/12 14:29
Cal Standard	2J29101-CAL1	1012CAL1.D	10/12/12 15:24
Cal Standard	2J29101-CAL2	1012CAL2.D	10/12/12 15:52
Cal Standard	2J29101-CAL3	1012CAL3.D	10/12/12 16:20
Cal Standard	2J29101-CAL4	1012CAL4.D	10/12/12 16:48
Cal Standard	2J29101-CAL5	1012CAL5.D	10/12/12 17:15
Cal Standard	2J29101-CAL6	1012CAL6.D	10/12/12 17:43
Cal Standard	2J29101-CAL7	1012CAL7.D	10/12/12 18:11
Cal Standard	2J29101-CAL8	1012CAL8.D	10/12/12 18:38
Cal Standard	2J29101-CAL9	1012CAL9.D	10/12/12 19:06
Initial Cal Check	2J29101-ICV2	1012ICV2.D	10/12/12 20:29
MS Tune	2J29101-TUN2	1012TUN3.D	10/16/12 13:45
Initial Cal Check	2J29101-ICV3	1012ICV3.D	10/16/12 14:13

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31008	Instrument:	MS-VOA5
Calibration:	2291001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K31008-TUN1	1103TUN1.D	11/03/12 06:11
Calibration Check	2K31008-CCV1	1103CCV1.D	11/03/12 06:39
LCS	2K03001-BS1	1103LCS1.D	11/03/12 07:07
Blank	2K03001-BLK1	1103BLK1.D	11/03/12 08:30
GW0786	1210292-01	1029201.D	11/03/12 10:21
GW0787	1210292-03	1029203.D	11/03/12 10:49
GW0788	1210292-05	1029205.D	11/03/12 11:17
GW0850	1210292-11	1029211.D	11/03/12 11:45
GW0848	1210292-07	1029207D.D	11/03/12 16:23
GW0849	1210292-09	1029209D.D	11/03/12 16:50
GW0849	2K03001-MS1	1029209M.D	11/03/12 17:18
GW0849	2K03001-MSD1	1029209S.D	11/03/12 17:46

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31009	Instrument:	MS-VOA5
Calibration:	2291001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K31009-TUN1	1103TUNE.D	11/03/12 18:41
Calibration Check	2K31009-CCV1	1103CCVE.D	11/03/12 19:09
LCS	2K03002-BS1	1103LCSE.D	11/03/12 19:36
Blank	2K03002-BLK1	1103BLKE.D	11/03/12 21:00
GW8060-AB	1211036-23	1103623.D	11/04/12 03:27
GW8061-AB	1211036-24	1103624.D	11/04/12 03:55
GW8239-TB	1211036-25	1103625.D	11/04/12 04:23
LCS Dup	2K03002-BSD1	1103LCDE.D	11/04/12 05:46

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31303	Instrument:	MS-VOA5
Calibration:	2291001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K31303-TUN1	1107TUN1.D	11/07/12 07:27
Calibration Check	2K31303-CCV1	1107CCV1.D	11/07/12 07:57
LCS	2K07005-BS1	1107LCS1.D	11/07/12 08:25
Blank	2K07005-BLK1	1107BLK1.D	11/07/12 09:48
GW0755	1211036-01	1103601.D	11/07/12 12:35
GW0763	1211036-05	1103605.D	11/07/12 13:03
GW0802	1211036-07	1103607.D	11/07/12 13:31
GW0803	1211036-09	1103609.D	11/07/12 13:59
GW0804	1211036-11	1103611.D	11/07/12 14:26
GW0814	1211036-17	1103617.D	11/07/12 14:57
GW0833	1211036-21	1103621.D	11/07/12 15:29
GW0762	1211036-03	1103603D.D	11/07/12 16:52
GW0812	1211036-13	1103613D.D	11/07/12 17:20

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31306	Instrument:	MS-VOA5
Calibration:	2291001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K31306-TUN1	1108TUN1.D	11/08/12 07:49
Calibration Check	2K31306-CCV1	1108CCV1.D	11/08/12 08:18
LCS	2K08002-BS1	1108LCS1.D	11/08/12 08:46
Blank	2K08002-BLK1	1108BLK1.D	11/08/12 10:10
GW0813	1211036-15	1103615.D	11/08/12 12:04

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31408	Instrument:	MS-VOA5
Calibration:	2291001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K31408-TUN1	1109TUN1.D	11/09/12 06:32
Calibration Check	2K31408-CCV1	1109CCV1.D	11/09/12 07:01
LCS	2K09002-BS1	1109LCS1.D	11/09/12 07:29
Blank	2K09002-BLK1	1109BLK1.D	11/09/12 08:52
GW0832	1211036-19	1103619.D	11/09/12 10:16
GW0832	2K09002-MS1	1103619M.D	11/09/12 18:09
GW0832	2K09002-MSD1	1103619S.D	11/09/12 18:36

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31008	Instrument:	MS-VOA5
		Calibration:	2291001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K31008-CCV1)			Lab File ID: 1103CCV1.D			Analyzed: 11/03/12 06:39			
Fluorobenzene	1281236	7.6	1190594	7.62	108	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5	494687	10.75	471003	10.76	105	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	508480	13.14	335738	13.15	151	50 - 200	-0.0100	+/-0.50	
LCS (2K03001-BS1)			Lab File ID: 1103LCS1.D			Analyzed: 11/03/12 07:07			
Fluorobenzene	1279834	7.6	1281236	7.6	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	489672	10.75	494687	10.75	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	512095	13.14	508480	13.14	101	50 - 200	0.0000	+/-0.50	
Blank (2K03001-BLK1)			Lab File ID: 1103BLK1.D			Analyzed: 11/03/12 08:30			
Fluorobenzene	1225973	7.6	1281236	7.6	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	504763	10.74	494687	10.75	102	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	442839	13.15	508480	13.14	87	50 - 200	0.0100	+/-0.50	
GW0786 (1210292-01)			Lab File ID: 1029201.D			Analyzed: 11/03/12 10:21			
Fluorobenzene	1198653	7.6	1281236	7.6	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	508715	10.75	494687	10.75	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	436618	13.15	508480	13.14	86	50 - 200	0.0100	+/-0.50	
GW0787 (1210292-03)			Lab File ID: 1029203.D			Analyzed: 11/03/12 10:49			
Fluorobenzene	1097718	7.6	1281236	7.6	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	494215	10.75	494687	10.75	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	437597	13.15	508480	13.14	86	50 - 200	0.0100	+/-0.50	
GW0788 (1210292-05)			Lab File ID: 1029205.D			Analyzed: 11/03/12 11:17			
Fluorobenzene	1204016	7.61	1281236	7.6	94	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	495150	10.75	494687	10.75	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	444676	13.15	508480	13.14	87	50 - 200	0.0100	+/-0.50	
GW0850 (1210292-11)			Lab File ID: 1029211.D			Analyzed: 11/03/12 11:45			
Fluorobenzene	1194852	7.6	1281236	7.6	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	500936	10.75	494687	10.75	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	444217	13.14	508480	13.14	87	50 - 200	0.0000	+/-0.50	
GW0848 (1210292-07)			Lab File ID: 1029207D.D			Analyzed: 11/03/12 16:23			
Fluorobenzene	1223955	7.61	1281236	7.6	96	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	499963	10.76	494687	10.75	101	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	465564	13.15	508480	13.14	92	50 - 200	0.0100	+/-0.50	
GW0849 (1210292-09)			Lab File ID: 1029209D.D			Analyzed: 11/03/12 16:50			
Fluorobenzene	1215970	7.61	1281236	7.6	95	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	509875	10.76	494687	10.75	103	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	473381	13.15	508480	13.14	93	50 - 200	0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31008	Instrument:	MS-VOA5
		Calibration:	2291001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (2K03001-MS1)			Lab File ID: 1029209M.D			Analyzed: 11/03/12 17:18			
Fluorobenzene	1276463	7.61	1281236	7.6	100	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	498302	10.76	494687	10.75	101	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	515080	13.15	508480	13.14	101	50 - 200	0.0100	+/-0.50	
Matrix Spike Dup (2K03001-MSD1)			Lab File ID: 1029209S.D			Analyzed: 11/03/12 17:46			
Fluorobenzene	1278940	7.61	1281236	7.6	100	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	487482	10.75	494687	10.75	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	517957	13.15	508480	13.14	102	50 - 200	0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31009	Instrument:	MS-VOA5
		Calibration:	2291001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K31009-CCV1)			Lab File ID: 1103CCVE.D			Analyzed: 11/03/12 19:09			
Fluorobenzene	1287297	7.61	1190594	7.62	108	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	499228	10.75	471003	10.76	106	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	513946	13.15	335738	13.15	153	50 - 200	0.0000	+/-0.50	
LCS (2K03002-BS1)			Lab File ID: 1103LCSE.D			Analyzed: 11/03/12 19:36			
Fluorobenzene	1289362	7.61	1287297	7.61	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	490014	10.75	499228	10.75	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	526369	13.15	513946	13.15	102	50 - 200	0.0000	+/-0.50	
Blank (2K03002-BLK1)			Lab File ID: 1103BLKE.D			Analyzed: 11/03/12 21:00			
Fluorobenzene	1242269	7.61	1287297	7.61	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	505981	10.75	499228	10.75	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	471144	13.15	513946	13.15	92	50 - 200	0.0000	+/-0.50	
GW8060-AB (1211036-23)			Lab File ID: 1103623.D			Analyzed: 11/04/12 03:27			
Fluorobenzene	1208611	7.6	1287297	7.61	94	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	498207	10.74	499228	10.75	100	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	456427	13.14	513946	13.15	89	50 - 200	-0.0100	+/-0.50	
GW8061-AB (1211036-24)			Lab File ID: 1103624.D			Analyzed: 11/04/12 03:55			
Fluorobenzene	1200187	7.61	1287297	7.61	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	494331	10.74	499228	10.75	99	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	453980	13.14	513946	13.15	88	50 - 200	-0.0100	+/-0.50	
GW8239-TB (1211036-25)			Lab File ID: 1103625.D			Analyzed: 11/04/12 04:23			
Fluorobenzene	1202677	7.6	1287297	7.61	93	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	505468	10.74	499228	10.75	101	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	432651	13.14	513946	13.15	84	50 - 200	-0.0100	+/-0.50	
LCS Dup (2K03002-BSD1)			Lab File ID: 1103LCDE.D			Analyzed: 11/04/12 05:46			
Fluorobenzene	1278013	7.6	1287297	7.61	99	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	491673	10.74	499228	10.75	98	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	513801	13.14	513946	13.15	100	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31303	Instrument:	MS-VOA5
		Calibration:	2291001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K31303-CCV1)			Lab File ID: 1107CCV1.D			Analyzed: 11/07/12 07:57			
Fluorobenzene	1345099	7.62	1190594	7.62	113	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	475595	10.75	471003	10.76	101	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	510891	13.15	335738	13.15	152	50 - 200	0.0000	+/-0.50	
LCS (2K07005-BS1)			Lab File ID: 1107LCS1.D			Analyzed: 11/07/12 08:25			
Fluorobenzene	1382534	7.62	1345099	7.62	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	536211	10.75	475595	10.75	113	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	501288	13.14	510891	13.15	98	50 - 200	-0.0100	+/-0.50	
Blank (2K07005-BLK1)			Lab File ID: 1107BLK1.D			Analyzed: 11/07/12 09:48			
Fluorobenzene	1394819	7.61	1345099	7.62	104	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	530100	10.75	475595	10.75	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	502146	13.15	510891	13.15	98	50 - 200	0.0000	+/-0.50	
GW0755 (1211036-01)			Lab File ID: 1103601.D			Analyzed: 11/07/12 12:35			
Fluorobenzene	1260757	7.61	1345099	7.62	94	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	529612	10.75	475595	10.75	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	492426	13.15	510891	13.15	96	50 - 200	0.0000	+/-0.50	
GW0763 (1211036-05)			Lab File ID: 1103605.D			Analyzed: 11/07/12 13:03			
Fluorobenzene	1380642	7.61	1345099	7.62	103	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	531534	10.75	475595	10.75	112	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	503153	13.15	510891	13.15	98	50 - 200	0.0000	+/-0.50	
GW0802 (1211036-07)			Lab File ID: 1103607.D			Analyzed: 11/07/12 13:31			
Fluorobenzene	1383228	7.61	1345099	7.62	103	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	527708	10.75	475595	10.75	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	505473	13.15	510891	13.15	99	50 - 200	0.0000	+/-0.50	
GW0803 (1211036-09)			Lab File ID: 1103609.D			Analyzed: 11/07/12 13:59			
Fluorobenzene	1378756	7.61	1345099	7.62	103	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	529754	10.75	475595	10.75	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	498035	13.15	510891	13.15	97	50 - 200	0.0000	+/-0.50	
GW0804 (1211036-11)			Lab File ID: 1103611.D			Analyzed: 11/07/12 14:26			
Fluorobenzene	1380772	7.61	1345099	7.62	103	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	537120	10.75	475595	10.75	113	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	498883	13.15	510891	13.15	98	50 - 200	0.0000	+/-0.50	
GW0814 (1211036-17)			Lab File ID: 1103617.D			Analyzed: 11/07/12 14:57			
Fluorobenzene	1372749	7.61	1345099	7.62	102	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	525615	10.75	475595	10.75	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	493163	13.15	510891	13.15	97	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31303	Instrument:	MS-VOA5
		Calibration:	2291001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0833 (1211036-21)			Lab File ID: 1103621.D			Analyzed: 11/07/12 15:29			
Fluorobenzene	1359253	7.6	1345099	7.62	101	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5	530216	10.75	475595	10.75	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	490933	13.15	510891	13.15	96	50 - 200	0.0000	+/-0.50	
GW0762 (1211036-03)			Lab File ID: 1103603D.D			Analyzed: 11/07/12 16:52			
Fluorobenzene	1258256	7.61	1345099	7.62	94	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	500632	10.75	475595	10.75	105	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	414344	13.15	510891	13.15	81	50 - 200	0.0000	+/-0.50	
GW0812 (1211036-13)			Lab File ID: 1103613D.D			Analyzed: 11/07/12 17:20			
Fluorobenzene	1367026	7.6	1345099	7.62	102	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5	514907	10.75	475595	10.75	108	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	510100	13.14	510891	13.15	100	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31306	Instrument:	MS-VOA5
		Calibration:	2291001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K31306-CCV1)			Lab File ID: 1108CCV1.D			Analyzed: 11/08/12 08:18			
Fluorobenzene	1285610	7.6	1190594	7.62	108	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5	463006	10.74	471003	10.76	98	50 - 200	-0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	491533	13.14	335738	13.15	146	50 - 200	-0.0100	+/-0.50	
LCS (2K08002-BS1)			Lab File ID: 1108LCS1.D			Analyzed: 11/08/12 08:46			
Fluorobenzene	1292231	7.6	1285610	7.6	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	453703	10.74	463006	10.74	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	491631	13.14	491533	13.14	100	50 - 200	0.0000	+/-0.50	
Blank (2K08002-BLK1)			Lab File ID: 1108BLK1.D			Analyzed: 11/08/12 10:10			
Fluorobenzene	1368552	7.6	1285610	7.6	106	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	505467	10.74	463006	10.74	109	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	397859	13.14	491533	13.14	81	50 - 200	0.0000	+/-0.50	
GW0813 (1211036-15)			Lab File ID: 1103615.D			Analyzed: 11/08/12 12:04			
Fluorobenzene	1360121	7.6	1285610	7.6	106	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	517160	10.74	463006	10.74	112	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	500314	13.14	491533	13.14	102	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31408	Instrument:	MS-VOA5
		Calibration:	2291001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K31408-CCV1)			Lab File ID: 1109CCV1.D			Analyzed: 11/09/12 07:01			
Fluorobenzene	1288498	7.6	1190594	7.62	108	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5	461027	10.74	471003	10.76	98	50 - 200	-0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	492310	13.14	335738	13.15	147	50 - 200	-0.0100	+/-0.50	
LCS (2K09002-BS1)			Lab File ID: 1109LCS1.D			Analyzed: 11/09/12 07:29			
Fluorobenzene	1272964	7.6	1288498	7.6	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	449136	10.74	461027	10.74	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	496115	13.14	492310	13.14	101	50 - 200	0.0000	+/-0.50	
Blank (2K09002-BLK1)			Lab File ID: 1109BLK1.D			Analyzed: 11/09/12 08:52			
Fluorobenzene	1371101	7.59	1288498	7.6	106	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	510010	10.74	461027	10.74	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	509258	13.14	492310	13.14	103	50 - 200	0.0000	+/-0.50	
GW0832 (1211036-19)			Lab File ID: 1103619.D			Analyzed: 11/09/12 10:16			
Fluorobenzene	1370882	7.59	1288498	7.6	106	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	515764	10.74	461027	10.74	112	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	501693	13.14	492310	13.14	102	50 - 200	0.0000	+/-0.50	
Matrix Spike (2K09002-MS1)			Lab File ID: 1103619M.D			Analyzed: 11/09/12 18:09			
Fluorobenzene	1248906	7.6	1288498	7.6	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	448881	10.74	461027	10.74	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	470300	13.15	492310	13.14	96	50 - 200	0.0100	+/-0.50	
Matrix Spike Dup (2K09002-MSD1)			Lab File ID: 1103619S.D			Analyzed: 11/09/12 18:36			
Fluorobenzene	1251071	7.6	1288498	7.6	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	444266	10.75	461027	10.74	96	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	479796	13.14	492310	13.14	97	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	1	~~0.2093107~~	2	~~0.1838394~~	4	0.137999	10	0.1450872	20	0.1358526	100	0.1292078
Acrolein	2.508	3.822066E-02	5.015	3.074716E-02	10.03	3.095516E-02	25.08	3.189976E-02	50.15	2.502974E-02	250.8	0.0301772
Acrylonitrile	2.498	0.1037199	4.997	0.1020165	9.994	0.1058176	24.98	0.1106814	49.97	0.1079525	249.8	0.1064949
Benzene	0.5	1.028388	1	0.9816032	2	0.9599322	5	1.024188	10	1.01676	50	0.9648804
Bromobenzene	0.5	1.134099	1	1.100652	2	1.0305	5	1.086311	10	0.980951	50	0.8661369
Bromochloromethane	0.5	0.1706723	1	0.1785507	2	0.1790381	5	0.1783228	10	0.1720989	50	0.168626
Tert-Amyl Methyl Ether	0.5	0.7139939	1	0.629713	2	0.6864908	5	0.7518886	10	0.7204948	50	0.7347454
Bromodichloromethane	0.5	0.3318081	1	0.3395327	2	0.3547819	5	0.3893821	10	0.3822455	50	0.3927084
Bromoform	0.5	0.4969803	1	0.4118617	2	0.4067888	5	0.4729397	10	0.5098658	50	0.594906
Bromomethane	0.5	0.2813787	1	0.2582419	2	0.2162678	5	0.2154689	10	0.2282273	50	0.213425
Bromofluorobenzene	30	0.9075324	35	0.8971084	40	0.9064125	50	0.9009446	60	0.90352	70	0.9208705
n-Butylbenzene	0.5	1.151177	1	1.109212	2	1.094426	5	1.319833	10	1.381655	50	1.4688
2-Butanone	1	~~0.2810418~~	2	0.1631233	4	0.1907209	10	0.2079197	20	0.1927078	100	0.1970593
sec-Butylbenzene	0.5	2.094637	1	2.019257	2	2.051515	5	2.278473	10	2.222431	50	2.15841
tert-Butylbenzene	0.5	1.681985	1	1.600949	2	1.62075	5	1.884469	10	1.807701	50	1.760426
Carbon disulfide	0.5	0.6541316	1	0.6638185	2	0.6061679	5	0.6694927	10	0.6702467	50	0.6484019
Carbon tetrachloride	0.5	0.3031986	1	0.3155144	2	0.3185444	5	0.3424039	10	0.3566006	50	0.3797009
Chlorobenzene	0.5	1.684174	1	1.561415	2	1.517603	5	1.680945	10	1.647245	50	1.568832
Chloroethane	0.5	0.2022361	1	0.1907017	2	0.19219	5	0.2063172	10	0.1882053	50	0.1926207
Chloroform	0.5	0.6796314	1	0.5398314	2	0.5025939	5	0.5404865	10	0.5210218	50	0.5192739
2-Chloroethyl vinyl ether	0.9975	0.1985602	1.995	0.1580362	3.99	0.1681127	9.975	0.1930318	19.95	0.1880536	99.75	0.1827217
Chloromethane	0.5	0.5070932	1	0.4133419	2	0.3768373	5	0.3936102	10	0.385891	50	0.3773814
1-Chlorohexane	0.5	~~1.225788~~	1	0.9204429	2	0.8347791	5	0.8619435	10	0.770689	50	0.7897108
2-Chlorotoluene	0.5	2.436396	1	2.442797	2	2.109176	5	2.373815	10	2.204853	50	2.026105
4-Chlorotoluene	0.5	2.478694	1	2.411124	2	2.118618	5	2.450232	10	2.361746	50	2.212235
Cyclohexane	0.5	0.4635052	1	0.4073309	2	0.3790632	5	0.42866	10	0.4086563	50	0.4060051
Dibromochloromethane	0.5	0.6491171	1	0.7198563	2	0.67002	5	0.7713199	10	0.7552968	50	0.8202884
1,2-Dibromo-3-chloropropane	0.5	0.1443687	1	0.1479013	2	0.1092794	5	0.1470075	10	0.1440406	50	0.14606
1,2-Dibromoethane (EDB)	0.5	0.8123185	1	0.6479887	2	0.623019	5	0.7139955	10	0.7127572	50	0.6945692
Dibromomethane	0.5	0.2031172	1	0.2114179	2	0.2074405	5	0.2467592	10	0.2230423	50	0.2234644
1,2-Dichlorobenzene	0.5	1.550127	1	1.335107	2	1.349162	5	1.445306	10	1.355715	50	1.253407

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Calibration: 2291001

Instrument: MS-VOA5

Matrix: Water

Calibration Dates: 10/12/12 15:24 10/12/12 19:06

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.659347	1	1.527997	2	1.462632	5	1.537842	10	1.418009	50	1.341542
1,4-Dichlorobenzene	0.5	1.704623	1	1.621969	2	1.435676	5	1.618494	10	1.517991	50	1.472998
Dichlorodifluoromethane	0.5	0.2418851	1	0.2393317	2	0.2325231	5	0.2584256	10	0.3039863	50	0.2970737
1,1-Dichloroethane	0.5	0.5801718	1	0.5292799	2	0.5433214	5	0.5824807	10	0.5674272	50	0.5517154
1,2-Dichloroethane	0.5	0.4577003	1	0.4664608	2	0.4649445	5	0.4986183	10	0.4653561	50	0.4755698
1,1-Dichloroethene	0.5	0.2258182	1	0.2151328	2	0.1973795	5	0.2358991	10	0.2329928	50	0.226227
cis-1,2-Dichloroethene	0.5	0.3485488	1	0.2942823	2	0.278491	5	0.3126759	10	0.3089413	50	0.2947265
trans-1,2-Dichloroethene	0.5	0.3055309	1	0.3056336	2	0.2551001	5	0.2900334	10	0.2690305	50	0.2686659
1,2-Dichloroethene (total)	1	0.3270399	2	0.2999579	4	0.2667955	10	0.3013546	20	0.2889859	100	0.2816962
1,2-Dichloropropane	0.5	0.3515549	1	0.2857946	2	0.3003938	5	0.3462037	10	0.3205553	50	0.3179448
1,3-Dichloropropane	0.5	0.9764418	1	0.9567702	2	1.006722	5	1.102503	10	1.071811	50	1.064477
2,2-Dichloropropane	0.5	0.4627277	1	0.3879821	2	0.3681245	5	0.4188481	10	0.4015827	50	0.4143792
1,1-Dichloropropene	0.5	0.3584481	1	0.3979661	2	0.3595389	5	0.3879962	10	0.3880272	50	0.3832157
cis-1,3-Dichloropropene	0.5	0.4679624	1	0.4134193	2	0.4252091	5	0.4856114	10	0.476467	50	0.481817
trans-1,3-Dichloropropene	0.5	1.087745	1	0.8734273	2	0.9401482	5	1.04063	10	1.025082	50	1.06396
Diisopropyl Ether	0.5	1.656553	1	1.323716	2	1.355187	5	1.462499	10	1.448533	50	1.416893
Ethylbenzene	0.5	2.958304	1	2.712674	2	2.634324	5	2.834619	10	2.75017	50	2.725992
Ethyl tert-Butyl Ether	0.5	1.04404	1	0.9879754	2	0.9619292	5	1.052878	10	1.030574	50	1.036999
Ethyl Methacrylate	0.5	0.8323399	1	0.729102	2	0.7477697	5	0.8346571	10	0.8215563	50	0.8808551
Hexachlorobutadiene	0.5	0.327858	1	0.27678	2	0.2044853	5	0.2287677	10	0.2401323	50	0.2104516
2-Hexanone	1	0.8759393	2	0.5350726	4	0.6107579	10	0.6638047	20	0.6469072	100	0.6363296
Iodomethane	0.5	0.3814601	1	0.3595522	2	0.352467	5	0.4091521	10	0.4336084	50	0.466603
Isopropylbenzene	0.5	2.096854	1	2.039571	2	2.038669	5	2.223489	10	2.156057	50	2.185784
p-Isopropyltoluene	0.5	1.584283	1	1.521244	2	1.404971	5	1.624106	10	1.596767	50	1.722013
Methylene chloride	0.5	0.3533171	1	0.3178362	2	0.2885012	5	0.3208096	10	0.3086809	50	0.2984568
Methyl Acetate	0.5	~~0.4034874~~	1	0.2549139	2	0.2926477	5	0.2820962	10	0.2809176	50	0.2759045
Methylcyclohexane	0.5	0.2939213	1	0.2609766	2	0.2581909	5	0.286672	10	0.2793021	50	0.2830842
Naphthalene	0.5	0.8803116	1	0.6655084	2	0.7034559	5	0.83726	10	0.8517879	50	0.873391
Methyl Methacrylate	0.5	0.4218866	1	0.3140697	2	0.3161786	5	0.3386494	10	0.3366743	50	0.3418622
4-Methyl-2-pentanone	1	0.4233119	2	0.3322446	4	0.3347934	10	0.3563104	20	0.3608402	100	0.3569288
Methyl t-Butyl Ether	0.5	0.6783875	1	0.6749634	2	0.6094749	5	0.6726878	10	0.6621038	50	0.6681816

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 2291001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 10/12/12 15:24 10/12/12 19:06

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	3.263488	1	3.045531	2	2.849074	5	3.308222	10	3.159948	50	2.924052
Styrene	0.5	1.524266	1	1.363255	2	1.434808	5	1.624945	10	1.632284	50	1.722102
1,1,2,2-Tetrachloroethane	0.5	1.104709	1	0.9165126	2	0.921	5	0.9883064	10	0.9455083	50	0.8178914
1,1,1,2-Tetrachloroethane	0.5	0.6827058	1	0.5817603	2	0.5685783	5	0.6867854	10	0.6292395	50	0.6417928
tert-Butyl alcohol	2.5	2.254554E-02	5	1.637166E-02	10	2.132533E-02	25	2.155899E-02	50	2.318905E-02	250	2.262879E-02
Tetrachloroethene	0.5	0.7868965	1	0.7155285	2	0.6774597	5	0.7157279	10	0.6901926	50	0.6780332
Toluene	0.5	1.509645	1	1.488892	2	1.396716	5	1.55292	10	1.475042	50	1.464147
1,2,3-Trichlorobenzene	0.5	0.3755176	1	0.3661866	2	0.3445147	5	0.4011342	10	0.4044343	50	0.3909977
1,2,4-Trichlorobenzene	0.5	0.4722267	1	0.4608244	2	0.4037647	5	0.4728509	10	0.5014627	50	0.4849717
1,1,2-Trichloroethane	0.5	0.6098645	1	0.4990077	2	0.4691162	5	0.526175	10	0.512373	50	0.5147031
1,1,1-Trichloroethane	0.5	0.444173	1	0.4125679	2	0.4039932	5	0.4406439	10	0.4229273	50	0.4301573
Tetrahydrofuran	0.5		1	2.200603E-02	2	1.678959E-02	5	3.064017E-02	10	2.477517E-02	50	2.664395E-02
Trichloroethene	0.5	0.3151192	1	0.3054014	2	0.298117	5	0.3147773	10	0.3008742	50	0.3017606
Trichlorofluoromethane	0.5	0.5168889	1	0.4696856	2	0.4581142	5	0.4884486	10	0.481379	50	0.4732761
1,2,3-Trichloropropane	0.5	0.1645185	1	0.1940294	2	0.2058211	5	0.194572	10	0.206484	50	0.2072864
1,3,5-Trimethylbenzene	0.5	2.080538	1	2.149372	2	1.929088	5	2.251845	10	2.199486	50	2.133291
1,2,4-Trimethylbenzene	0.5	1.697474	1	1.628056	2	1.584926	5	1.869994	10	1.867937	50	1.955528
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2206871	1	0.2292445	2	0.2281858	5	0.2419011	10	0.2319588	50	0.2297067
Vinyl chloride	0.5	0.3213905	1	0.2966557	2	0.2370258	5	0.1823644	10	0.229365	50	0.1869944
m,p-Xylene	1	1.873325	2	2.004391	4	1.92717	10	2.030662	20	1.989148	100	1.95425
o-Xylene	0.5	2.045351	1	1.811181	2	1.877678	5	2.037184	10	1.988475	50	2.052774
Vinyl acetate	0.996	1.021043	1.992	0.9152215	3.984	0.8650078	9.96	0.9646369	19.92	0.9415722	99.62	0.9137966
Xylenes (total)	1.5	1.930667	3	1.939988	6	1.910673	15	2.032836	30	1.988924	150	1.987091
Dibromofluoromethane	30	0.3528567	35	0.3429425	40	0.3432467	50	0.3383209	60	0.3415729	70	0.3422776
1,2-Dichloroethane-d4	30	6.444309E-02	35	6.162721E-02	40	6.201401E-02	50	6.223986E-02	60	6.230871E-02	70	6.209132E-02
Toluene-d8	30	2.287677	35	2.252852	40	2.245046	50	2.203474	60	2.148516	70	2.160796
tert-Amyl alcohol	2.5		5	1.611884E-02	10	0.0162452	25	1.764632E-02	50	1.805149E-02	250	1.781281E-02
tert-Amyl ethyl ether	0.5	0.8325782	1	0.8090635	2	0.775323	5	0.8479465	10	0.8201036	50	0.8272931

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	200	0.1266626	300	0.1231423	400	0.1178324						
Acrolein	501.5	3.545277E-02	752.2	3.651356E-02	1003	3.745221E-02						
Acrylonitrile	499.7	0.1044768	749.6	0.1039993	999.4	0.1003698						
Benzene	100	0.9235232	150	0.8594138	200	0.7849292						
Bromobenzene	100	0.8881735	150	0.8599457	200	0.8316292						
Bromochloromethane	100	0.1667734	150	0.1606741	200	0.1579936						
Tert-Amyl Methyl Ether	100	0.7262016	150	0.6707946	200	0.6177467						
Bromodichloromethane	100	0.3929716	150	0.3702909	200	0.3476311						
Bromoform	100	0.6462845	150	~~0.6617821~~	200	~~0.659788~~						
Bromomethane	100	0.2108286	150	0.2070282	200	0.2060198						
Bromofluorobenzene	30	0.9824568	30	0.9999227	30	0.9994479						
n-Butylbenzene	100	1.523087	150	1.449184	200	1.348779						
2-Butanone	200	0.195438	300	0.1889607	400	0.1844391						
sec-Butylbenzene	100	2.112831	150	1.921296	200	1.738243						
tert-Butylbenzene	100	1.760964	150	1.674096	200	1.555494						
Carbon disulfide	100	0.6413098	150	0.6082213	200	0.6090515						
Carbon tetrachloride	100	0.3840762	150	0.3669635	200	0.3516571						
Chlorobenzene	100	1.541911	150	1.466087	200	1.381431						
Chloroethane	100	0.1836753	150	0.1742626	200	0.1667518						
Chloroform	100	0.5096551	150	0.4704461	200	0.4420506						
2-Chloroethyl vinyl ether	199.5	0.1804314	299.2	0.1684203	399	0.1572394						
Chloromethane	100	0.3578709	150	0.3365053	200	0.3209209						
1-Chlorohexane	100	0.7767257	150	0.7396203	200	0.7120631						
2-Chlorotoluene	100	1.902054	150	1.764556	200	1.587876						
4-Chlorotoluene	100	2.141204	150	1.983296	200	1.805777						
Cyclohexane	100	0.4070208	150	0.3891092	200	0.3732226						
Dibromochloromethane	100	0.8453414	150	0.8429101	200	0.8141642						
1,2-Dibromo-3-chloropropane	100	0.1572772	150	0.1614128	200	0.1546557						
1,2-Dibromoethane (EDB)	100	0.6986333	150	0.6857349	200	0.6688842						
Dibromomethane	100	0.2208477	150	0.2065651	200	0.197802						
1,2-Dichlorobenzene	100	1.251456	150	1.217215	200	1.144362						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.336381	150	1.307302	200	1.210477						
1,4-Dichlorobenzene	100	1.465122	150	1.404034	200	1.301508						
Dichlorodifluoromethane	100	0.2883207	150	0.2679091	200	0.2564453						
1,1-Dichloroethane	100	0.5468606	150	0.5220661	200	0.5052939						
1,2-Dichloroethane	100	0.4473436	150	0.4127259	200	0.3872583						
1,1-Dichloroethene	100	0.2225573	150	0.2100764	200	0.2138721						
cis-1,2-Dichloroethene	100	0.2981693	150	0.2856926	200	0.274881						
trans-1,2-Dichloroethene	100	0.2624296	150	0.2483985	200	0.2420407						
1,2-Dichloroethene (total)	200	0.2802994	300	0.2670456	400	0.2584608						
1,2-Dichloropropane	100	0.3118958	150	0.2980104	200	0.2831874						
1,3-Dichloropropane	100	1.067553	150	1.032431	200	0.9749471						
2,2-Dichloropropane	100	0.4025817	150	0.3756275	200	0.3526653						
1,1-Dichloropropene	100	0.3776621	150	0.3571731	200	0.3353771						
cis-1,3-Dichloropropene	100	0.4757073	150	0.4493707	200	0.4159489						
trans-1,3-Dichloropropene	100	1.017311	150	0.9559691	200	0.8866128						
Diisopropyl Ether	100	1.342089	150	1.225994	200	1.115844						
Ethylbenzene	100	2.576414	150	2.335666	200	2.063086						
Ethyl tert-Butyl Ether	100	1.001227	150	0.9096821	200	0.8316089						
Ethyl Methacrylate	100	0.9116472	150	0.8839081	200	0.8561447						
Hexachlorobutadiene	100	0.2507218	150	0.2632424	200	0.2650239						
2-Hexanone	200	0.6392215	300	0.6188601	400	0.5808973						
Iodomethane	100	0.4558964	150	0.4324466	200	0.4359104						
Isopropylbenzene	100	2.110598	150	1.930801	200	1.764106						
p-Isopropyltoluene	100	1.726902	150	1.613216	200	1.476111						
Methylene chloride	100	0.2911459	150	0.2911504	200	0.2826383						
Methyl Acetate	100	0.2647661	150	0.264273	200	0.2523324						
Methylcyclohexane	100	0.2888642	150	0.2710586	200	0.2594319						
Naphthalene	100	0.9609156	150	1.027227	200	0.9662239						
Methyl Methacrylate	100	0.3408883	150	0.3196133	200	0.3028905						
4-Methyl-2-pentanone	200	0.3444019	300	0.3182518	400	0.2882798						
Methyl t-Butyl Ether	100	0.6449987	150	0.607574	200	0.5808785						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.742988	150	2.4168	200	2.100691						
Styrene	100	1.722777	150	1.617389	200	1.512023						
1,1,2,2-Tetrachloroethane	100	0.8059682	150	0.7844217	200	0.7425934						
1,1,1,2-Tetrachloroethane	100	0.6655796	150	0.662686	200	0.6518395						
tert-Butyl alcohol	500	2.189285E-02	750	2.152677E-02	1000	2.206532E-02						
Tetrachloroethene	100	0.7022279	150	0.714417	200	0.7136411						
Toluene	100	1.427433	150	1.367729	200	1.304066						
1,2,3-Trichlorobenzene	100	0.441067	150	0.4788034	200	0.4724479						
1,2,4-Trichlorobenzene	100	0.5401172	150	0.5816383	200	0.5677333						
1,1,2-Trichloroethane	100	0.517336	150	0.5117101	200	0.4934725						
1,1,1-Trichloroethane	100	0.4290463	150	0.4029258	200	0.3865336						
Tetrahydrofuran	100	2.671989E-02	150	2.566542E-02	200	2.647819E-02						
Trichloroethene	100	0.2872951	150	0.2697105	200	0.2573622						
Trichlorofluoromethane	100	0.4694212	150	0.4413153	200	0.4223437						
1,2,3-Trichloropropane	100	0.2087153	150	0.2066379	200	0.2038684						
1,3,5-Trimethylbenzene	100	2.053956	150	1.864038	200	1.691768						
1,2,4-Trimethylbenzene	100	1.899135	150	1.78786	200	1.608316						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2283044	150	0.2158549	200	0.2123486						
Vinyl chloride	100	0.1981654	150	~~0.1639443~~	200	~~0.1466384~~						
m,p-Xylene	200	1.741986	300	1.492592	400	1.308365						
o-Xylene	100	1.940067	150	1.777874	200	1.617302						
Vinyl acetate	199.2	0.8136057	298.9	0.6943068	398.5	~~0.6040652~~						
Xylenes (total)	300	1.808013	450	1.587687	600	1.411344						
Dibromofluoromethane	30	0.3393876	30	0.342012	30	0.3453447						
1,2-Dichloroethane-d4	30	6.075024E-02	30	6.202381E-02	30	6.320841E-02						
Toluene-d8	30	2.316447	30	2.435615	30	2.422273						
tert-Amyl alcohol	500	1.824924E-02	750	1.817118E-02	1000	1.797343E-02						
tert-Amyl ethyl ether	100	0.8042518	150	0.7298337	200	0.6696996						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2291001		Instrument:	MS-VOA5	
Matrix:	Water		Calibration Dates:	10/12/12 15:24	10/12/12 19:06

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.1308263	7.169947	3.421429	0.1107739			15	
Acrolein	3.293869E-02	13.03005	3.321111	0.1019839			15	
Acrylonitrile	0.1050587	2.955386	4.224444	0.1237894			15	
Benzene	0.9492909	8.620587	7.344444	7.245944E-02			15	
Bromobenzene	0.9753776	12.01047	12.10889	0.0144915			15	
Bromochloromethane	0.1703055	4.507879	6.424444	8.158399E-02			15	
Tert-Amyl Methyl Ether	0.6946744	6.768849	7.543333	6.727492E-02			15	
Bromodichloromethane	0.3668169	6.534773	8.341111	4.022106E-02			15	
Bromoform	0.505661	17.59172	11.51143	2.797771E-02		0.9999593	SPCC (0.1)	
Bromomethane	0.2263207	11.54685	2.575555	0.2053272			15	
Bromofluorobenzene	0.9353573	4.777822	11.95	2.025372E-02			15	
n-Butylbenzene	1.316239	12.26201	13.54556	4.202676E-02			15	
2-Butanone	0.1900461	6.781548	5.87	1.747658E-02			15	
sec-Butylbenzene	2.066344	7.876697	13.00556	3.835336E-02			15	
tert-Butylbenzene	1.705204	6.245025	12.77111	2.030234E-02			15	
Carbon disulfide	0.6412047	4.171366	4.406667	0.1140858			15	
Carbon tetrachloride	0.3465177	8.348462	7.311111	8.229499E-02			15	
Chlorobenzene	1.561071	6.428212	10.79111	3.598659E-02			SPCC (0.3)	
Chloroethane	0.1885512	6.604544	2.696667	0.1857631			15	
Chloroform	0.524999	12.60127	6.401111	5.547756E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1771786	8.444776	8.712222	4.758714E-02			15	
Chloromethane	0.3854947	13.93974	2.037778	0.2150863			SPCC (0.1)	
1-Chlorohexane	0.8007468	8.500716	10.7675	4.454654E-02			15	
2-Chlorotoluene	2.094181	14.4823	12.33444	4.387552E-02			15	
4-Chlorotoluene	2.218103	10.33822	12.39444	4.712388E-02			15	
Cyclohexane	0.4069526	6.67736	7.241111	4.219525E-02			15	
Dibromochloromethane	0.7653683	9.53649	10.02	1.919963E-02			15	
1,2-Dibromo-3-chloropropane	0.1457781	10.28602	14.13889	1.933973E-02			15	
1,2-Dibromoethane (EDB)	0.6953223	7.645976	10.23444	5.380092E-02			15	
Dibromomethane	0.2156063	6.867565	8.275556	6.274539E-02			15	
1,2-Dichlorobenzene	1.322429	9.319326	13.49556	3.668195E-02			15	
1,3-Dichlorobenzene	1.422392	9.765556	13.08889	4.337518E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2291001	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	10/12/12 15:24 10/12/12 19:06

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.504713	8.327264	13.18111	4.258517E-02			15	
Dichlorodifluoromethane	0.2651001	9.859331	1.845556	0.2856368			15	
1,1-Dichloroethane	0.5476241	4.780995	5.418889	5.933679E-02			SPCC (0.1)	
1,2-Dichloroethane	0.4528864	7.432713	7.172222	6.209681E-02			15	
1,1-Dichloroethene	0.219995	5.502211	3.871111	0.1550187			CCC (20)	
cis-1,2-Dichloroethene	0.299601	7.424506	6.144444	8.827927E-02			15	
trans-1,2-Dichloroethene	0.2718737	8.657721	5.04	9.962629E-02			15	
1,2-Dichloroethene (total)	0.2857373	7.486324	6.144444	8.827927E-02			15	
1,2-Dichloropropane	0.3128379	7.734725	8.164444	6.216083E-02			CCC (20)	
1,3-Dichloropropane	1.028184	5.028358	9.767778	6.969679E-02			15	
2,2-Dichloropropane	0.3982799	8.171856	6.252222	7.058938E-02			15	
1,1-Dichloropropene	0.3717116	5.417463	7.192222	6.275141E-02			15	
cis-1,3-Dichloropropene	0.4546126	6.453357	8.923333	5.284769E-02			15	
trans-1,3-Dichloropropene	0.9878761	7.795565	9.402222	4.663104E-02			15	
Diisopropyl Ether	1.371923	11.15829	5.802222	7.784852E-02			15	
Ethylbenzene	2.62125	10.36353	10.94444	4.993597E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.9841015	7.438849	6.275556	8.592307E-02			15	
Ethyl Methacrylate	0.8331089	7.325389	9.6	4.887049E-02			15	
Hexachlorobutadiene	0.2519403	14.9377	15.49778	2.865142E-02			15	
2-Hexanone	0.64531	14.68557	9.708889	6.396247E-02			15	
Iodomethane	0.4141218	9.941711	4.062222	0.1064841			15	
Isopropylbenzene	2.060659	6.880268	11.84444	4.914158E-02			15	
p-Isopropyltoluene	1.585513	6.678641	13.14444	0.0373946			15	
Methylene chloride	0.3058374	7.270345	4.355556	0.121083			15	
Methyl Acetate	0.2709814	5.229151	4.21	0.1259766			15	
Methylcyclohexane	0.2757224	4.97078	8.495555	6.049599E-02			15	
Naphthalene	0.8628979	13.76505	15.36	1.759729E-02			15	
Methyl Methacrylate	0.3369681	10.31889	8.306667	5.808503E-02			15	
4-Methyl-2-pentanone	0.3461514	10.63507	8.851111	0.0427818			15	
Methyl t-Butyl Ether	0.6443611	5.590097	5.03	1.761348E-02			15	
n-Propylbenzene	2.867866	13.93909	12.25333	3.966289E-02			15	
Styrene	1.57265	7.853373	11.41889	2.195589E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2291001		Instrument:	MS-VOA5	
Matrix:	Water		Calibration Dates:	10/12/12 15:24	10/12/12 19:06

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.891879	12.88279	11.76778	5.755305E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.6412186	6.505399	10.83444	4.503166E-02			15	
tert-Butyl alcohol	2.145603E-02	9.323035	3.998889	8.342015E-02			15	
Tetrachloroethene	0.7104583	4.599011	10.13333	5.271432E-02			15	
Toluene	1.442954	5.337669	9.4	4.407662E-03			CCC (20)	
1,2,3-Trichlorobenzene	0.4083448	11.43467	15.64778	2.504416E-02			15	
1,2,4-Trichlorobenzene	0.4983989	11.29925	15.21222	2.863628E-02			15	
1,1,2-Trichloroethane	0.5170842	7.469048	9.554445	5.725395E-02			15	
1,1,1-Trichloroethane	0.4192187	4.558507	6.966667	7.320109E-02			15	
Tetrahydrofuran	0.0249648	16.34235	6.61	0.0180108	0.9995332		0.995	
Trichloroethene	0.2944908	6.692227	8.115555	6.266205E-02			15	
Trichlorofluoromethane	0.4689858	5.793276	3.15	0.1588719			15	
1,2,3-Trichloropropane	0.1991037	7.060199	11.89111	0.0147569			15	
1,3,5-Trimethylbenzene	2.039265	8.795024	12.43333	4.248275E-02			15	
1,2,4-Trimethylbenzene	1.766581	7.92246	12.80222	4.014229E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2264658	3.944156	3.947778	0.2110514			15	
Vinyl chloride	0.2359945	23.03148	2.175714	0.2462423	0.9988621		CCC (20)	*
m,p-Xylene	1.813543	13.97709	11.05778	5.889907E-02			15	
o-Xylene	1.905321	7.777756	11.44778	3.791632E-02			15	
Vinyl acetate	0.8911488	11.32924	5.49875	6.399563E-02			15	
Xylenes (total)	1.844136	11.38244	11.44778	3.791632E-02			15	
Dibromofluoromethane	0.3431068	1.223972	6.572222	6.593489E-02			15	
1,2-Dichloroethane-d4	6.230074E-02	1.652363	7.081111	4.893599E-02			15	
Toluene-d8	2.274744	4.528986	9.322222	4.878895E-02			15	
tert-Amyl alcohol	1.753356E-02	4.883647	6.7775	6.889731E-02			15	
tert-Amyl ethyl ether	0.790677	7.256792	8.443333	5.558737E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1012ICV2.D	Calibration Date:	10/12/12 03:24
Sequence:	2J29101	Injection Date:	10/12/12
Lab Sample ID:	2J29101-ICV2	Injection Time:	20:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	189.2	0.1308263	0.1237894		-5.4	20
Benzene	A	100.0	86.88	0.9492909	0.8247049		-13.1	20
Bromobenzene	A	100.0	81.33	0.9753776	0.7932768		-18.7	20
Bromochloromethane	A	100.0	86.26	0.1703055	0.146908		-13.7	20
Bromodichloromethane	A	100.0	91.88	0.3668169	0.3370203		-8.1	20
Bromoform	Q	100.0	93.61	0.505661	0.5989334	0.1	-6.4	20
Bromomethane	A	100.0	83.82	0.2263207	0.1897067		-16.2	20
n-Butylbenzene	A	100.0	103.7	1.316239	1.364641		3.7	20
2-Butanone	A	200.0	200.3	0.1900461	0.1903028		0.1	20
sec-Butylbenzene	A	100.0	90.33	2.066344	1.866628		-9.7	20
tert-Butylbenzene	A	100.0	90.30	1.705204	1.539855		-9.7	20
Carbon disulfide	A	100.0	87.62	0.6412047	0.5617964		-12.4	20
Carbon tetrachloride	A	100.0	95.73	0.3465177	0.3317074		-4.3	20
Chlorobenzene	A	100.0	90.63	1.561071	1.414764	0.3	-9.4	20
Chloroethane	A	100.0	83.58	0.1885512	0.1575968		-16.4	20
Chloroform	A	100.0	83.87	0.524999	0.4403183		-16.1	20
Chloromethane	A	100.0	80.20	0.3854947	0.3091732	0.1	-19.8	20
2-Chlorotoluene	A	100.0	81.73	2.094181	1.711597		-18.3	20
4-Chlorotoluene	A	100.0	85.16	2.218103	1.888959		-14.8	20
Dibromochloromethane	A	100.0	101.3	0.7653683	0.7754495		1.3	20
1,2-Dibromo-3-chloropropane	A	100.0	99.91	0.1457781	0.1456403		-0.09	20
1,2-Dibromoethane (EDB)	A	100.0	91.92	0.6953223	0.6391628		-8.1	20
Dibromomethane	A	100.0	88.98	0.2156063	0.1918446		-11.0	20
1,2-Dichlorobenzene	A	100.0	86.31	1.322429	1.141337		-13.7	20
1,3-Dichlorobenzene	A	100.0	84.66	1.422392	1.204134		-15.3	20
1,4-Dichlorobenzene	A	100.0	87.81	1.504713	1.321271		-12.2	20
Dichlorodifluoromethane	A	100.0	91.99	0.2651001	0.2438581		-8.0	20
1,1-Dichloroethane	A	100.0	88.30	0.5476241	0.4835784	0.1	-11.7	20
1,2-Dichloroethane	A	100.0	85.78	0.4528864	0.3884664		-14.2	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1012ICV2.D	Calibration Date:	10/12/12 03:24
Sequence:	2J29101	Injection Date:	10/12/12
Lab Sample ID:	2J29101-ICV2	Injection Time:	20:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,1-Dichloroethene	A	100.0	87.91	0.219995	0.1933946		-12.1	20
cis-1,2-Dichloroethene	A	100.0	87.31	0.299601	0.2615895		-12.7	20
trans-1,2-Dichloroethene	A	100.0	85.14	0.2718737	0.2314696		-14.9	20
1,2-Dichloropropane	A	100.0	88.52	0.3128379	0.2769166		-11.5	20
1,3-Dichloropropane	A	100.0	94.08	1.028184	0.9672779		-5.9	20
2,2-Dichloropropane	A	100.0	83.80	0.3982799	0.3337392		-16.2	20
1,1-Dichloropropene	A	100.0	88.15	0.3717116	0.3276608		-11.9	20
cis-1,3-Dichloropropene	A	100.0	91.20	0.4546126	0.4146255		-8.8	20
trans-1,3-Dichloropropene	A	100.0	92.25	0.9878761	0.9112792		-7.8	20
Ethylbenzene	A	100.0	89.33	2.62125	2.341602		-10.7	20
Hexachlorobutadiene	A	100.0	90.42	0.2519403	0.227815		-9.6	20
2-Hexanone	A	200.0	194.0	0.64531	0.6261081		-3.0	20
Isopropylbenzene	A	100.0	92.92	2.060659	1.914713		-7.1	20
p-Isopropyltoluene	A	100.0	94.67	1.585513	1.50102		-5.3	20
Methylene chloride	A	100.0	85.75	0.3058374	0.2622497		-14.3	20
Naphthalene	A	100.0	101.6	0.8628979	0.8768548		1.6	20
4-Methyl-2-pentanone	A	200.0	189.6	0.3461514	0.3281836		-5.2	20
Methyl t-Butyl Ether	A	100.0	88.56	0.6443611	0.570629		-11.4	20
n-Propylbenzene	A	100.0	84.42	2.867866	2.42105		-15.6	20
Styrene	A	100.0	99.54	1.57265	1.565459		-0.5	20
1,1,2,2-Tetrachloroethane	A	100.0	81.50	0.891879	0.7268652	0.3	-18.5	20
1,1,1,2-Tetrachloroethane	A	100.0	95.36	0.6412186	0.6114397		-4.6	20
Tetrachloroethene	A	100.0	90.91	0.7104583	0.6458528		-9.1	20
Toluene	A	100.0	89.65	1.442954	1.29367		-10.3	20
1,2,3-Trichlorobenzene	A	100.0	99.68	0.4083448	0.4070406		-0.3	20
1,2,4-Trichlorobenzene	A	100.0	101.4	0.4983989	0.5052836		1.4	20
1,1,2-Trichloroethane	A	100.0	92.15	0.5170842	0.4764956		-7.8	20
1,1,1-Trichloroethane	A	100.0	88.56	0.4192187	0.3712762		-11.4	20
Trichloroethene	A	100.0	84.99	0.2944908	0.2502824		-15.0	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1012ICV2.D	Calibration Date:	10/12/12 03:24
Sequence:	2J29101	Injection Date:	10/12/12
Lab Sample ID:	2J29101-ICV2	Injection Time:	20:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Trichlorofluoromethane	A	100.0	85.72	0.4689858	0.4019954		-14.3	20
1,2,3-Trichloropropane	A	100.0	94.83	0.1991037	0.1888084		-5.2	20
1,3,5-Trimethylbenzene	A	100.0	88.97	2.039265	1.814233		-11.0	20
1,2,4-Trimethylbenzene	A	100.0	96.97	1.766581	1.713118		-3.0	20
Xylenes (total)	A	300.0	268.6	1.844136	1.652238		-10.4	20
Bromofluorobenzene	A	30.00	31.47	0.9353573	0.981069		4.9	20
Dibromofluoromethane	A	30.00	29.34	0.3431068	0.3355545		-2.2	20
1,2-Dichloroethane-d4	A	30.00	30.49	6.230074E-02	6.332127E-02		1.6	20
Toluene-d8	A	30.00	31.27	2.274744	2.3712		4.2	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1012ICV3.D	Calibration Date:	10/12/12 03:24
Sequence:	2J29101	Injection Date:	10/16/12
Lab Sample ID:	2J29101-ICV3	Injection Time:	14:13

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	L	50.00	46.28	0.2359945	0.1820071		-7.4	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1103CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31008	Injection Date:	11/03/12
Lab Sample ID:	2K31008-CCV1	Injection Time:	06:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	100.0	69.34	0.1308263	9.070999E-02		-30.7	20 *
Benzene	A	50.00	49.53	0.9492909	0.9404253		-0.9	20
Bromobenzene	A	50.00	43.66	0.9753776	0.8517527		-12.7	20
Bromochloromethane	A	50.00	49.71	0.1703055	0.1693192		-0.6	20
Bromodichloromethane	A	50.00	49.93	0.3668169	0.366332		-0.1	20
Bromoform	Q	50.00	49.41	0.505661	0.5851506	0.1	-1.2	20
Bromomethane	A	50.00	39.27	0.2263207	0.1777598		-21.5	20 *
n-Butylbenzene	A	50.00	57.88	1.316239	1.523563		15.8	20
2-Butanone	A	100.0	80.17	0.1900461	0.1523569		-19.8	20
sec-Butylbenzene	A	50.00	49.80	2.066344	2.057936		-0.4	20
tert-Butylbenzene	A	50.00	52.77	1.705204	1.799522		5.5	20
Carbon disulfide	A	50.00	57.65	0.6412047	0.7392886		15.3	20
Carbon tetrachloride	A	50.00	50.35	0.3465177	0.3489465		0.7	20
Chlorobenzene	A	50.00	55.58	1.561071	1.735438	0.3	11.2	20
Chloroethane	A	50.00	46.11	0.1885512	0.1738958		-7.8	20
Chloroform	A	50.00	46.08	0.524999	0.4838401		-7.8	20
Chloromethane	A	50.00	48.84	0.3854947	0.3765526	0.1	-2.3	20
2-Chlorotoluene	A	50.00	40.46	2.094181	1.694561		-19.1	20
4-Chlorotoluene	A	50.00	43.77	2.218103	1.941665		-12.5	20
Dibromochloromethane	A	50.00	56.31	0.7653683	0.8618868		12.6	20
1,2-Dibromo-3-chloropropane	A	50.00	43.54	0.1457781	0.1269537		-12.9	20
1,2-Dibromoethane (EDB)	A	50.00	51.42	0.6953223	0.7150255		2.8	20
Dibromomethane	A	50.00	46.99	0.2156063	0.2026278		-6.0	20
1,2-Dichlorobenzene	A	50.00	49.88	1.322429	1.319277		-0.2	20
1,3-Dichlorobenzene	A	50.00	48.73	1.422392	1.386232		-2.5	20
1,4-Dichlorobenzene	A	50.00	48.42	1.504713	1.457053		-3.2	20
Dichlorodifluoromethane	A	50.00	56.11	0.2651001	0.2974871		12.2	20
1,1-Dichloroethane	A	50.00	45.90	0.5476241	0.5026826	0.1	-8.2	20
1,2-Dichloroethane	A	50.00	44.45	0.4528864	0.4026242		-11.1	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1103CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31008	Injection Date:	11/03/12
Lab Sample ID:	2K31008-CCV1	Injection Time:	06:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	50.00	49.77	0.219995	0.2189756		-0.5	20	
cis-1,2-Dichloroethene	A	50.00	48.35	0.299601	0.2897148		-3.3	20	
trans-1,2-Dichloroethene	A	50.00	47.38	0.2718737	0.2576181		-5.2	20	
1,2-Dichloropropane	A	50.00	48.57	0.3128379	0.3039122		-2.9	20	
1,3-Dichloropropane	A	50.00	48.44	1.028184	0.9962008		-3.1	20	
2,2-Dichloropropane	A	50.00	47.45	0.3982799	0.3779369		-5.1	20	
1,1-Dichloropropene	A	50.00	46.76	0.3717116	0.347639		-6.5	20	
cis-1,3-Dichloropropene	A	50.00	47.41	0.4546126	0.4311037		-5.2	20	
trans-1,3-Dichloropropene	A	50.00	46.00	0.9878761	0.908754		-8.0	20	
Ethylbenzene	A	50.00	52.35	2.62125	2.744305		4.7	20	
Hexachlorobutadiene	A	50.00	54.79	0.2519403	0.2760722		9.6	20	
2-Hexanone	A	100.0	80.45	0.64531	0.5191743		-19.5	20	
Isopropylbenzene	A	50.00	54.75	2.060659	2.256251		9.5	20	
p-Isopropyltoluene	A	50.00	57.70	1.585513	1.829784		15.4	20	
Methylene chloride	A	50.00	45.87	0.3058374	0.2805951		-8.3	20	
Naphthalene	A	50.00	51.53	0.8628979	0.8892834		3.1	20	
4-Methyl-2-pentanone	A	100.0	87.72	0.3461514	0.3036455		-12.3	20	
Methyl t-Butyl Ether	A	50.00	45.25	0.6443611	0.5831834		-9.5	20	
n-Propylbenzene	A	50.00	45.77	2.867866	2.62544		-8.5	20	
Styrene	A	50.00	58.42	1.57265	1.837336		16.8	20	
1,1,2,2-Tetrachloroethane	A	50.00	36.52	0.891879	0.6513495	0.3	-27.0	20	*
1,1,1,2-Tetrachloroethane	A	50.00	57.16	0.6412186	0.7330635		14.3	20	
Tetrachloroethene	A	50.00	58.01	0.7104583	0.8242727		16.0	20	
Toluene	A	50.00	50.00	1.442954	1.442894		-0.004	20	
1,2,3-Trichlorobenzene	A	50.00	57.69	0.4083448	0.4711501		15.4	20	
1,2,4-Trichlorobenzene	A	50.00	61.87	0.4983989	0.6167381		23.7	20	*
1,1,2-Trichloroethane	A	50.00	49.85	0.5170842	0.5155163		-0.3	20	
1,1,1-Trichloroethane	A	50.00	46.11	0.4192187	0.3866178		-7.8	20	
Trichloroethene	A	50.00	49.70	0.2944908	0.2927283		-0.6	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1103CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31008	Injection Date:	11/03/12
Lab Sample ID:	2K31008-CCV1	Injection Time:	06:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	50.00	45.70	0.4689858	0.4286629		-8.6	20
1,2,3-Trichloropropane	A	50.00	50.97	0.1991037	0.2029768		1.9	20
1,3,5-Trimethylbenzene	A	50.00	46.08	2.039265	1.879216		-7.8	20
1,2,4-Trimethylbenzene	A	50.00	52.06	1.766581	1.839511		4.1	20
Vinyl chloride	L	50.00	46.76	0.2359945	0.1838603		-6.5	20
Xylenes (total)	A	150.0	160.2	1.844136	1.969661		6.8	20
Bromofluorobenzene	A	30.00	30.71	0.9353573	0.9574317		2.4	20
Dibromofluoromethane	A	30.00	28.80	0.3431068	0.3293265		-4.0	20
1,2-Dichloroethane-d4	A	30.00	28.59	6.230074E-02	5.936767E-02		-4.7	20
Toluene-d8	A	30.00	31.08	2.274744	2.356876		3.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1103CCVE.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31009	Injection Date:	11/03/12
Lab Sample ID:	2K31009-CCV1	Injection Time:	19:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	100.0	74.65	0.1308263	9.765648E-02		-25.4	20 *
Benzene	A	50.00	51.33	0.9492909	0.9745653		2.7	20
Bromobenzene	A	50.00	43.23	0.9753776	0.8433442		-13.5	20
Bromochloromethane	A	50.00	54.82	0.1703055	0.1867136		9.6	20
Bromodichloromethane	A	50.00	49.47	0.3668169	0.3628953		-1.1	20
Bromoform	Q	50.00	50.18	0.505661	0.5951974	0.1	0.4	20
Bromomethane	A	50.00	39.24	0.2263207	0.1776303		-21.5	20 *
n-Butylbenzene	A	50.00	53.93	1.316239	1.419817		7.9	20
2-Butanone	A	100.0	82.52	0.1900461	0.1568344		-17.5	20
sec-Butylbenzene	A	50.00	47.58	2.066344	1.966355		-4.8	20
tert-Butylbenzene	A	50.00	51.36	1.705204	1.751708		2.7	20
Carbon disulfide	A	50.00	59.53	0.6412047	0.7634429		19.1	20
Carbon tetrachloride	A	50.00	50.83	0.3465177	0.3522679		1.7	20
Chlorobenzene	A	50.00	55.44	1.561071	1.730788	0.3	10.9	20
Chloroethane	A	50.00	46.02	0.1885512	0.1735483		-8.0	20
Chloroform	A	50.00	44.61	0.524999	0.4684061		-10.8	20
Chloromethane	A	50.00	48.40	0.3854947	0.3731554	0.1	-3.2	20
2-Chlorotoluene	A	50.00	38.73	2.094181	1.622286		-22.5	20 *
4-Chlorotoluene	A	50.00	41.77	2.218103	1.852971		-16.5	20
Dibromochloromethane	A	50.00	56.04	0.7653683	0.8578834		12.1	20
1,2-Dibromo-3-chloropropane	A	50.00	45.90	0.1457781	0.1338152		-8.2	20
1,2-Dibromoethane (EDB)	A	50.00	51.51	0.6953223	0.7163817		3.0	20
Dibromomethane	A	50.00	46.79	0.2156063	0.2017525		-6.4	20
1,2-Dichlorobenzene	A	50.00	48.40	1.322429	1.279998		-3.2	20
1,3-Dichlorobenzene	A	50.00	47.30	1.422392	1.345629		-5.4	20
1,4-Dichlorobenzene	A	50.00	47.04	1.504713	1.415729		-5.9	20
Dichlorodifluoromethane	A	50.00	54.34	0.2651001	0.288127		8.7	20
1,1-Dichloroethane	A	50.00	47.68	0.5476241	0.5222133	0.1	-4.6	20
1,2-Dichloroethane	A	50.00	41.71	0.4528864	0.3778391		-16.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1103CCVE.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31009	Injection Date:	11/03/12
Lab Sample ID:	2K31009-CCV1	Injection Time:	19:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	50.00	53.62	0.219995	0.2359418		7.2	20
cis-1,2-Dichloroethene	A	50.00	48.48	0.299601	0.2904752		-3.0	20
trans-1,2-Dichloroethene	A	50.00	49.75	0.2718737	0.2705054		-0.5	20
1,2-Dichloropropane	A	50.00	47.61	0.3128379	0.2978832		-4.8	20
1,3-Dichloropropane	A	50.00	46.72	1.028184	0.9607093		-6.6	20
2,2-Dichloropropane	A	50.00	37.81	0.3982799	0.3011426		-24.4	20 *
1,1-Dichloropropene	A	50.00	46.34	0.3717116	0.3445359		-7.3	20
cis-1,3-Dichloropropene	A	50.00	44.76	0.4546126	0.4069462		-10.5	20
trans-1,3-Dichloropropene	A	50.00	44.35	0.9878761	0.8762862		-11.3	20
Ethylbenzene	A	50.00	51.21	2.62125	2.684944		2.4	20
Hexachlorobutadiene	A	50.00	53.64	0.2519403	0.270277		7.3	20
2-Hexanone	A	100.0	83.43	0.64531	0.5384049		-16.6	20
Isopropylbenzene	A	50.00	53.46	2.060659	2.203338		6.9	20
p-Isopropyltoluene	A	50.00	55.70	1.585513	1.766344		11.4	20
Methylene chloride	A	50.00	46.71	0.3058374	0.2857136		-6.6	20
Naphthalene	A	50.00	54.14	0.8628979	0.9342596		8.3	20
4-Methyl-2-pentanone	A	100.0	91.23	0.3461514	0.3157985		-8.8	20
Methyl t-Butyl Ether	A	50.00	48.27	0.6443611	0.6220756		-3.5	20
n-Propylbenzene	A	50.00	43.43	2.867866	2.491303		-13.1	20
Styrene	A	50.00	56.55	1.57265	1.778744		13.1	20
1,1,2,2-Tetrachloroethane	A	50.00	35.45	0.891879	0.6323555	0.3	-29.1	20 *
1,1,1,2-Tetrachloroethane	A	50.00	56.51	0.6412186	0.7246829		13.0	20
Tetrachloroethene	A	50.00	57.64	0.7104583	0.8189805		15.3	20
Toluene	A	50.00	50.04	1.442954	1.444012		0.07	20
1,2,3-Trichlorobenzene	A	50.00	59.59	0.4083448	0.4866815		19.2	20
1,2,4-Trichlorobenzene	A	50.00	62.65	0.4983989	0.624459		25.3	20 *
1,1,2-Trichloroethane	A	50.00	48.14	0.5170842	0.4979		-3.7	20
1,1,1-Trichloroethane	A	50.00	45.63	0.4192187	0.3825597		-8.7	20
Trichloroethene	A	50.00	49.00	0.2944908	0.2886243		-2.0	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1103CCVE.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31009	Injection Date:	11/03/12
Lab Sample ID:	2K31009-CCV1	Injection Time:	19:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	50.00	46.85	0.4689858	0.439486		-6.3	20
1,2,3-Trichloropropane	A	50.00	48.11	0.1991037	0.1915638		-3.8	20
1,3,5-Trimethylbenzene	A	50.00	44.34	2.039265	1.80838		-11.3	20
1,2,4-Trimethylbenzene	A	50.00	50.06	1.766581	1.768576		0.1	20
Vinyl chloride	L	50.00	47.17	0.2359945	0.1854728		-5.7	20
Xylenes (total)	A	150.0	153.1	1.844136	1.882555		2.1	20
Bromofluorobenzene	A	30.00	30.40	0.9353573	0.9478134		1.3	20
Dibromofluoromethane	A	30.00	29.95	0.3431068	0.3424952		-0.2	20
1,2-Dichloroethane-d4	A	30.00	30.70	6.230074E-02	6.375219E-02		2.3	20
Toluene-d8	A	30.00	31.46	2.274744	2.385509		4.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1107CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31303	Injection Date:	11/07/12
Lab Sample ID:	2K31303-CCV1	Injection Time:	07:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	100.0	92.45	0.1308263	0.1209542		-7.5	20	
Benzene	A	50.00	49.54	0.9492909	0.9405505		-0.9	20	
Bromobenzene	A	50.00	44.45	0.9753776	0.867165		-11.1	20	
Bromochloromethane	A	50.00	53.45	0.1703055	0.1820565		6.9	20	
Bromodichloromethane	A	50.00	47.77	0.3668169	0.3504532		-4.5	20	
Bromoform	Q	50.00	53.05	0.505661	0.6326282	0.1	6.1	20	
Bromomethane	A	50.00	39.62	0.2263207	0.179352		-20.8	20	*
n-Butylbenzene	A	50.00	55.39	1.316239	1.458176		10.8	20	
2-Butanone	A	100.0	92.08	0.1900461	0.1749969		-7.9	20	
sec-Butylbenzene	A	50.00	51.66	2.066344	2.135061		3.3	20	
tert-Butylbenzene	A	50.00	52.73	1.705204	1.798358		5.5	20	
Carbon disulfide	A	50.00	64.41	0.6412047	0.8260304		28.8	20	*
Carbon tetrachloride	A	50.00	49.95	0.3465177	0.3461736		-0.1	20	
Chlorobenzene	A	50.00	57.31	1.561071	1.789302	0.3	14.6	20	
Chloroethane	A	50.00	49.18	0.1885512	0.1854524		-1.6	20	
Chloroform	A	50.00	43.47	0.524999	0.4564638		-13.1	20	
Chloromethane	A	50.00	51.07	0.3854947	0.3937477	0.1	2.1	20	
2-Chlorotoluene	A	50.00	40.17	2.094181	1.682469		-19.7	20	
4-Chlorotoluene	A	50.00	43.50	2.218103	1.929636		-13.0	20	
Dibromochloromethane	A	50.00	60.74	0.7653683	0.9297045		21.5	20	*
1,2-Dibromo-3-chloropropane	A	50.00	48.65	0.1457781	0.1418393		-2.7	20	
1,2-Dibromoethane (EDB)	A	50.00	53.56	0.6953223	0.7448178		7.1	20	
Dibromomethane	A	50.00	46.48	0.2156063	0.2004129		-7.0	20	
1,2-Dichlorobenzene	A	50.00	48.47	1.322429	1.281909		-3.1	20	
1,3-Dichlorobenzene	A	50.00	47.07	1.422392	1.338965		-5.9	20	
1,4-Dichlorobenzene	A	50.00	47.06	1.504713	1.416267		-5.9	20	
Dichlorodifluoromethane	A	50.00	58.85	0.2651001	0.3120016		17.7	20	
1,1-Dichloroethane	A	50.00	49.13	0.5476241	0.5380917	0.1	-1.7	20	
1,2-Dichloroethane	A	50.00	39.52	0.4528864	0.3579867		-21.0	20	*

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1107CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31303	Injection Date:	11/07/12
Lab Sample ID:	2K31303-CCV1	Injection Time:	07:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	50.00	55.62	0.219995	0.2447325		11.2	20	
cis-1,2-Dichloroethene	A	50.00	47.70	0.299601	0.2857944		-4.6	20	
trans-1,2-Dichloroethene	A	50.00	53.48	0.2718737	0.2908207		7.0	20	
1,2-Dichloropropane	A	50.00	47.02	0.3128379	0.2941871		-6.0	20	
1,3-Dichloropropane	A	50.00	47.72	1.028184	0.9812185		-4.6	20	
2,2-Dichloropropane	A	50.00	43.23	0.3982799	0.3443546		-13.5	20	
1,1-Dichloropropene	A	50.00	45.75	0.3717116	0.3401067		-8.5	20	
cis-1,3-Dichloropropene	A	50.00	44.49	0.4546126	0.4045522		-11.0	20	
trans-1,3-Dichloropropene	A	50.00	48.39	0.9878761	0.9561598		-3.2	20	
Ethylbenzene	A	50.00	54.13	2.62125	2.837649		8.3	20	
Hexachlorobutadiene	A	50.00	58.61	0.2519403	0.2953205		17.2	20	
2-Hexanone	A	100.0	99.84	0.64531	0.6442927		-0.2	20	
Isopropylbenzene	A	50.00	58.53	2.060659	2.412034		17.1	20	
p-Isopropyltoluene	A	50.00	57.22	1.585513	1.814418		14.4	20	
Methylene chloride	A	50.00	49.01	0.3058374	0.2998026		-2.0	20	
Naphthalene	A	50.00	52.27	0.8628979	0.9021509		4.5	20	
4-Methyl-2-pentanone	A	100.0	100.6	0.3461514	0.3483801		0.6	20	
Methyl t-Butyl Ether	A	50.00	47.29	0.6443611	0.6093981		-5.4	20	
n-Propylbenzene	A	50.00	44.92	2.867866	2.576475		-10.2	20	
Styrene	A	50.00	58.57	1.57265	1.842336		17.1	20	
1,1,2,2-Tetrachloroethane	A	50.00	34.87	0.891879	0.6220274	0.3	-30.3	20	*
1,1,1,2-Tetrachloroethane	A	50.00	61.23	0.6412186	0.7852513		22.5	20	*
Tetrachloroethene	A	50.00	62.06	0.7104583	0.88182		24.1	20	*
Toluene	A	50.00	53.57	1.442954	1.546038		7.1	20	
1,2,3-Trichlorobenzene	A	50.00	60.65	0.4083448	0.4953605		21.3	20	*
1,2,4-Trichlorobenzene	A	50.00	64.37	0.4983989	0.6416707		28.7	20	*
1,1,2-Trichloroethane	A	50.00	51.03	0.5170842	0.5277457		2.1	20	
1,1,1-Trichloroethane	A	50.00	46.28	0.4192187	0.3880555		-7.4	20	
Trichloroethene	A	50.00	47.93	0.2944908	0.2822768		-4.1	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1107CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31303	Injection Date:	11/07/12
Lab Sample ID:	2K31303-CCV1	Injection Time:	07:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	50.00	50.53	0.4689858	0.47397		1.1	20
1,2,3-Trichloropropane	A	50.00	53.06	0.1991037	0.2112726		6.1	20
1,3,5-Trimethylbenzene	A	50.00	47.09	2.039265	1.920641		-5.8	20
1,2,4-Trimethylbenzene	A	50.00	53.20	1.766581	1.879555		6.4	20
Vinyl chloride	L	50.00	48.92	0.2359945	0.1923119		-2.2	20
Xylenes (total)	A	150.0	164.9	1.844136	2.026648		9.9	20
Bromofluorobenzene	A	30.00	30.49	0.9353573	0.9505083		1.6	20
Dibromofluoromethane	A	30.00	28.03	0.3431068	0.3205422		-6.6	20
1,2-Dichloroethane-d4	A	30.00	29.68	6.230074E-02	6.162818E-02		-1.1	20
Toluene-d8	A	30.00	32.11	2.274744	2.434965		7.0	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1108CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31306	Injection Date:	11/08/12
Lab Sample ID:	2K31306-CCV1	Injection Time:	08:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	100.0	89.76	0.1308263	0.1174355		-10.2	20
Benzene	A	50.00	47.77	0.9492909	0.9068979		-4.5	20
Bromobenzene	A	50.00	43.26	0.9753776	0.8438217		-13.5	20
Bromochloromethane	A	50.00	53.46	0.1703055	0.1820904		6.9	20
Bromodichloromethane	A	50.00	46.44	0.3668169	0.3407088		-7.1	20
Bromoform	Q	50.00	53.37	0.505661	0.6368587	0.1	6.7	20
Bromomethane	A	50.00	39.90	0.2263207	0.1806226		-20.2	20 *
n-Butylbenzene	A	50.00	55.14	1.316239	1.451672		10.3	20
2-Butanone	A	100.0	94.59	0.1900461	0.1797676		-5.4	20
sec-Butylbenzene	A	50.00	50.69	2.066344	2.094807		1.4	20
tert-Butylbenzene	A	50.00	53.13	1.705204	1.811938		6.3	20
Carbon disulfide	A	50.00	58.85	0.6412047	0.7546733		17.7	20
Carbon tetrachloride	A	50.00	48.07	0.3465177	0.333172		-3.9	20
Chlorobenzene	A	50.00	55.93	1.561071	1.746284	0.3	11.9	20
Chloroethane	A	50.00	47.61	0.1885512	0.1795258		-4.8	20
Chloroform	A	50.00	44.18	0.524999	0.4638511		-11.6	20
Chloromethane	A	50.00	49.07	0.3854947	0.3783326	0.1	-1.9	20
2-Chlorotoluene	A	50.00	44.98	2.094181	1.883853		-10.0	20
4-Chlorotoluene	A	50.00	48.37	2.218103	2.145809		-3.3	20
Dibromochloromethane	A	50.00	58.98	0.7653683	0.9028678		18.0	20
1,2-Dibromo-3-chloropropane	A	50.00	47.55	0.1457781	0.138623		-4.9	20
1,2-Dibromoethane (EDB)	A	50.00	51.61	0.6953223	0.7176775		3.2	20
Dibromomethane	A	50.00	44.84	0.2156063	0.1933636		-10.3	20
1,2-Dichlorobenzene	A	50.00	48.36	1.322429	1.279113		-3.3	20
1,3-Dichlorobenzene	A	50.00	45.98	1.422392	1.307977		-8.0	20
1,4-Dichlorobenzene	A	50.00	46.38	1.504713	1.395919		-7.2	20
Dichlorodifluoromethane	A	50.00	56.66	0.2651001	0.3003897		13.3	20
1,1-Dichloroethane	A	50.00	46.15	0.5476241	0.505448	0.1	-7.7	20
1,2-Dichloroethane	A	50.00	38.65	0.4528864	0.350041		-22.7	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1108CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31306	Injection Date:	11/08/12
Lab Sample ID:	2K31306-CCV1	Injection Time:	08:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	50.00	58.99	0.219995	0.2595437		18.0	20
cis-1,2-Dichloroethene	A	50.00	46.99	0.299601	0.2815656		-6.0	20
trans-1,2-Dichloroethene	A	50.00	49.57	0.2718737	0.2695377		-0.9	20
1,2-Dichloropropane	A	50.00	44.57	0.3128379	0.2788826		-10.9	20
1,3-Dichloropropane	A	50.00	45.21	1.028184	0.9296147		-9.6	20
2,2-Dichloropropane	A	50.00	40.80	0.3982799	0.3250228		-18.4	20
1,1-Dichloropropene	A	50.00	43.98	0.3717116	0.3269242		-12.0	20
cis-1,3-Dichloropropene	A	50.00	42.69	0.4546126	0.3881432		-14.6	20
trans-1,3-Dichloropropene	A	50.00	46.17	0.9878761	0.9122525		-7.7	20
Ethylbenzene	A	50.00	52.08	2.62125	2.730413		4.2	20
Hexachlorobutadiene	A	50.00	62.67	0.2519403	0.3157949		25.3	20 *
2-Hexanone	A	100.0	98.78	0.64531	0.6374231		-1.2	20
Isopropylbenzene	A	50.00	62.29	2.060659	2.566973		24.6	20 *
p-Isopropyltoluene	A	50.00	56.92	1.585513	1.80505		13.8	20
Methylene chloride	A	50.00	46.15	0.3058374	0.2823002		-7.7	20
Naphthalene	A	50.00	54.91	0.8628979	0.9475836		9.8	20
4-Methyl-2-pentanone	A	100.0	99.13	0.3461514	0.3431408		-0.9	20
Methyl t-Butyl Ether	A	50.00	45.07	0.6443611	0.5808212		-9.9	20
n-Propylbenzene	A	50.00	50.45	2.867866	2.893719		0.9	20
Styrene	A	50.00	63.04	1.57265	1.982697		26.1	20 *
1,1,2,2-Tetrachloroethane	A	50.00	40.94	0.891879	0.7303176	0.3	-18.1	20
1,1,1,2-Tetrachloroethane	A	50.00	59.91	0.6412186	0.7683451		19.8	20
Tetrachloroethene	A	50.00	59.51	0.7104583	0.8455795		19.0	20
Toluene	A	50.00	50.14	1.442954	1.447074		0.3	20
1,2,3-Trichlorobenzene	A	50.00	62.10	0.4083448	0.5071839		24.2	20 *
1,2,4-Trichlorobenzene	A	50.00	66.55	0.4983989	0.6633308		33.1	20 *
1,1,2-Trichloroethane	A	50.00	48.79	0.5170842	0.5045287		-2.4	20
1,1,1-Trichloroethane	A	50.00	44.85	0.4192187	0.3760252		-10.3	20
Trichloroethene	A	50.00	45.64	0.2944908	0.2687873		-8.7	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1108CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31306	Injection Date:	11/08/12
Lab Sample ID:	2K31306-CCV1	Injection Time:	08:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	50.00	49.45	0.4689858	0.4638674		-1.1	20
1,2,3-Trichloropropane	A	50.00	57.60	0.1991037	0.2293564		15.2	20
1,3,5-Trimethylbenzene	A	50.00	51.66	2.039265	2.106987		3.3	20
1,2,4-Trimethylbenzene	A	50.00	52.20	1.766581	1.844265		4.4	20
Vinyl chloride	L	50.00	44.30	0.2359945	0.1742497		-11.4	20
Xylenes (total)	A	150.0	168.2	1.844136	2.071214		12.3	20
Bromofluorobenzene	A	30.00	35.37	0.9353573	1.102914		17.9	20
Dibromofluoromethane	A	30.00	29.07	0.3431068	0.3325254		-3.1	20
1,2-Dichloroethane-d4	A	30.00	30.97	6.230074E-02	6.431344E-02		3.2	20
Toluene-d8	A	30.00	32.31	2.274744	2.450258		7.7	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1109CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31408	Injection Date:	11/09/12
Lab Sample ID:	2K31408-CCV1	Injection Time:	07:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	100.0	92.33	0.1308263	0.1207967		-7.7	20
Benzene	A	50.00	48.95	0.9492909	0.9294012		-2.1	20
Bromobenzene	A	50.00	44.68	0.9753776	0.8715521		-10.6	20
Bromochloromethane	A	50.00	53.52	0.1703055	0.1822834		7.0	20
Bromodichloromethane	A	50.00	47.58	0.3668169	0.3490478		-4.8	20
Bromoform	Q	50.00	54.11	0.505661	0.6465461	0.1	8.2	20
Bromomethane	A	50.00	40.76	0.2263207	0.1845083		-18.5	20
n-Butylbenzene	A	50.00	61.20	1.316239	1.610997		22.4	20 *
2-Butanone	A	100.0	93.91	0.1900461	0.1784697		-6.1	20
sec-Butylbenzene	A	50.00	51.91	2.066344	2.145193		3.8	20
tert-Butylbenzene	A	50.00	53.23	1.705204	1.815518		6.5	20
Carbon disulfide	A	50.00	63.08	0.6412047	0.8089773		26.2	20 *
Carbon tetrachloride	A	50.00	48.77	0.3465177	0.3380042		-2.5	20
Chlorobenzene	A	50.00	57.11	1.561071	1.783054	0.3	14.2	20
Chloroethane	A	50.00	49.20	0.1885512	0.1855398		-1.6	20
Chloroform	A	50.00	43.33	0.524999	0.4549409		-13.3	20
Chloromethane	A	50.00	50.92	0.3854947	0.3925752	0.1	1.8	20
2-Chlorotoluene	A	50.00	39.57	2.094181	1.657207		-20.9	20 *
4-Chlorotoluene	A	50.00	42.65	2.218103	1.892033		-14.7	20
Dibromochloromethane	A	50.00	59.24	0.7653683	0.9067838		18.5	20
1,2-Dibromo-3-chloropropane	A	50.00	47.84	0.1457781	0.1394902		-4.3	20
1,2-Dibromoethane (EDB)	A	50.00	53.18	0.6953223	0.7395589		6.4	20
Dibromomethane	A	50.00	44.89	0.2156063	0.1935807		-10.2	20
1,2-Dichlorobenzene	A	50.00	48.32	1.322429	1.27802		-3.4	20
1,3-Dichlorobenzene	A	50.00	46.80	1.422392	1.331474		-6.4	20
1,4-Dichlorobenzene	A	50.00	46.15	1.504713	1.38893		-7.7	20
Dichlorodifluoromethane	A	50.00	58.10	0.2651001	0.308034		16.2	20
1,1-Dichloroethane	A	50.00	47.13	0.5476241	0.5161829	0.1	-5.7	20
1,2-Dichloroethane	A	50.00	39.92	0.4528864	0.3616066		-20.2	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1109CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31408	Injection Date:	11/09/12
Lab Sample ID:	2K31408-CCV1	Injection Time:	07:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	50.00	53.51	0.219995	0.2354197		7.0	20
cis-1,2-Dichloroethene	A	50.00	47.41	0.299601	0.284074		-5.2	20
trans-1,2-Dichloroethene	A	50.00	51.81	0.2718737	0.2817383		3.6	20
1,2-Dichloropropane	A	50.00	44.89	0.3128379	0.2808763		-10.2	20
1,3-Dichloropropane	A	50.00	47.79	1.028184	0.9828257		-4.4	20
2,2-Dichloropropane	A	50.00	42.84	0.3982799	0.3412355		-14.3	20
1,1-Dichloropropene	A	50.00	45.02	0.3717116	0.3347079		-10.0	20
cis-1,3-Dichloropropene	A	50.00	43.47	0.4546126	0.3952774		-13.1	20
trans-1,3-Dichloropropene	A	50.00	47.84	0.9878761	0.9451867		-4.3	20
Ethylbenzene	A	50.00	52.74	2.62125	2.764656		5.5	20
Hexachlorobutadiene	A	50.00	60.12	0.2519403	0.3029347		20.2	20 *
2-Hexanone	A	100.0	96.66	0.64531	0.6237656		-3.3	20
Isopropylbenzene	A	50.00	57.89	2.060659	2.385954		15.8	20
p-Isopropyltoluene	A	50.00	57.38	1.585513	1.819413		14.8	20
Methylene chloride	A	50.00	48.76	0.3058374	0.2982691		-2.5	20
Naphthalene	A	50.00	53.20	0.8628979	0.9180606		6.4	20
4-Methyl-2-pentanone	A	100.0	99.02	0.3461514	0.3427589		-1.0	20
Methyl t-Butyl Ether	A	50.00	46.17	0.6443611	0.5949429		-7.7	20
n-Propylbenzene	A	50.00	44.79	2.867866	2.568848		-10.4	20
Styrene	A	50.00	57.89	1.57265	1.820685		15.8	20
1,1,2,2-Tetrachloroethane	A	50.00	34.74	0.891879	0.6195925	0.3	-30.5	20 *
1,1,1,2-Tetrachloroethane	A	50.00	61.21	0.6412186	0.7849727		22.4	20 *
Tetrachloroethene	A	50.00	62.13	0.7104583	0.8828034		24.3	20 *
Toluene	A	50.00	51.99	1.442954	1.500504		4.0	20
1,2,3-Trichlorobenzene	A	50.00	60.81	0.4083448	0.4966615		21.6	20 *
1,2,4-Trichlorobenzene	A	50.00	65.00	0.4983989	0.6479174		30.0	20 *
1,1,2-Trichloroethane	A	50.00	49.88	0.5170842	0.5158019		-0.2	20
1,1,1-Trichloroethane	A	50.00	45.21	0.4192187	0.3790702		-9.6	20
Trichloroethene	A	50.00	46.68	0.2944908	0.2749615		-6.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	2291001
Lab File ID:	1109CCV1.D	Calibration Date:	10/12/12 03:24
Sequence:	2K31408	Injection Date:	11/09/12
Lab Sample ID:	2K31408-CCV1	Injection Time:	07:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	50.00	49.61	0.4689858	0.4653455		-0.8	20
1,2,3-Trichloropropane	A	50.00	53.41	0.1991037	0.2126869		6.8	20
1,3,5-Trimethylbenzene	A	50.00	46.86	2.039265	1.911042		-6.3	20
1,2,4-Trimethylbenzene	A	50.00	52.33	1.766581	1.848976		4.7	20
Vinyl chloride	L	50.00	48.45	0.2359945	0.1904934		-3.1	20
Xylenes (total)	A	150.0	162.8	1.844136	2.001038		8.5	20
Bromofluorobenzene	A	30.00	31.13	0.9353573	0.9706438		3.8	20
Dibromofluoromethane	A	30.00	28.62	0.3431068	0.3272943		-4.6	20
1,2-Dichloroethane-d4	A	30.00	31.59	6.230074E-02	6.560041E-02		5.3	20
Toluene-d8	A	30.00	32.05	2.274744	2.430278		6.8	20

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0786	10/30/12 15:41	10/31/12 08:30	11/03/12 10:21	N/A	14.00	11/03/12 10:21	3.74	14.00	
GW0787	10/30/12 13:25	10/31/12 08:30	11/03/12 10:49	N/A	14.00	11/03/12 10:49	3.85	14.00	
GW0788	10/30/12 11:05	10/31/12 08:30	11/03/12 11:17	N/A	14.00	11/03/12 11:17	3.97	14.00	
GW0848	10/29/12 16:50	10/31/12 08:30	11/03/12 16:23	N/A	14.00	11/03/12 16:23	4.94	14.00	
GW0849	10/29/12 14:00	10/31/12 08:30	11/03/12 16:50	N/A	14.00	11/03/12 16:50	5.08	14.00	
GW0850	10/29/12 11:17	10/31/12 08:30	11/03/12 11:45	N/A	14.00	11/03/12 11:45	4.98	14.00	
GW0755	11/01/12 12:13	11/02/12 08:15	11/07/12 12:35	N/A	14.00	11/07/12 12:35	5.97	14.00	
GW0762	11/01/12 15:33	11/02/12 08:15	11/07/12 16:52	N/A	14.00	11/07/12 16:52	6.01	14.00	
GW0763	11/01/12 09:34	11/02/12 08:15	11/07/12 13:03	N/A	14.00	11/07/12 13:03	6.10	14.00	
GW0802	10/31/12 15:32	11/02/12 08:15	11/07/12 13:31	N/A	14.00	11/07/12 13:31	6.87	14.00	
GW0803	10/31/12 13:17	11/02/12 08:15	11/07/12 13:59	N/A	14.00	11/07/12 13:59	6.99	14.00	
GW0804	10/31/12 10:51	11/02/12 08:15	11/07/12 14:26	N/A	14.00	11/07/12 14:26	7.11	14.00	
GW0812	10/31/12 16:27	11/02/12 08:15	11/07/12 17:20	N/A	14.00	11/07/12 17:20	7.00	14.00	
GW0813	10/31/12 13:44	11/02/12 08:15	11/08/12 12:04	N/A	14.00	11/08/12 12:04	7.89	14.00	
GW0814	10/31/12 11:21	11/02/12 08:15	11/07/12 14:57	N/A	14.00	11/07/12 14:57	7.11	14.00	
GW0832	11/01/12 13:37	11/02/12 08:15	11/09/12 10:16	N/A	14.00	11/09/12 10:16	7.82	14.00	
GW0833	11/01/12 11:17	11/02/12 08:15	11/07/12 15:29	N/A	14.00	11/07/12 15:29	6.13	14.00	
GW8060-AB	10/31/12 16:27	11/02/12 08:15	11/04/12 03:27	N/A	14.00	11/04/12 03:27	3.42	14.00	
GW8061-AB	10/31/12 15:32	11/02/12 08:15	11/04/12 03:55	N/A	14.00	11/04/12 03:55	3.47	14.00	
GW8239-TB	10/31/12 08:00	11/02/12 08:15	11/04/12 04:23	N/A	14.00	11/04/12 04:23	3.81	14.00	

PREPARATION BENCH SHEET

2K03001

Empirical Laboratories, LLC

Printed: 11/19/2012 11:01:40AM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210289-08	B	VOC_8260B_REG	11/03/2012	5	5				1	2	see versions 5XF
1210289-09	B	VOC_8260B_REG	11/03/2012	5	5				1	2	see versions 5XF
1210292-01	B	VOC_8260B_REG	11/03/2012	5	5				1	2	naphthalene must be reported
1210292-03	B	VOC_8260B_REG	11/03/2012	5	5				1	2	naphthalene must be reported
1210292-05	B	VOC_8260B_REG	11/03/2012	5	5				1	7	naphthalene must be reported
1210292-07	B	VOC_8260B_REG	11/03/2012	5	5				1	2	5x-NO LOWER DIL -bad matrix-ADM
1210292-09	B	VOC_8260B_REG	11/03/2012	5	5				1	2	MS/MSD,5x-NO LOWER DIL-bad matrix-ADM
1210292-11	B	VOC_8260B_REG	11/03/2012	5	5				1	2	naphthalene must be reported
1210296-01	A	VOC_8260B_REG	11/03/2012	5	5				1	2	See version
1210296-02	B	VOC_8260B_REG	11/03/2012	5	5				1	2	See version
1210296-03	B	VOC_8260B_REG	11/03/2012	5	5				1	2	2x-NO LOWER DIL-bad matrix-ADM
1211007-01	B	VOC_8260B_REG	11/03/2012	5	5				1	2	see versions 2XF
1211007-02	B	VOC_8260B_REG	11/03/2012	5	5				1	2	see versions
1211007-03	B	VOC_8260B_REG	11/03/2012	5	5				1	2	see versions 2XF
1211007-04	B	VOC_8260B_REG	11/03/2012	5	5				1	2	see versions 2XF
1211007-05	B	VOC_8260B_REG	11/03/2012	5	5				1	2	see versions
1211007-06	B	VOC_8260B_REG	11/03/2012	5	5				1	2	see versions 2XF
1211007-07	B	VOC_8260B_REG	11/03/2012	5	5				1	2	see versions 2XF
2K03001-BLK1		QC	11/03/2012	5	5				1	NA	
2K03001-BS1		QC	11/03/2012	5	5	12K0033		2.5	1	NA	
2K03001-MS1		QC	11/03/2012	5	5	12K0033	1210292-09	12.5	1	NA	5x
2K03001-MSD1		QC	11/03/2012	5	5	12K0033	1210292-09	12.5	1	NA	5x

PREPARATION BENCH SHEET

2K03001

Empirical Laboratories, LLC

Printed: 11/19/2012 11:01:40AM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description
12A0500	Anti-foam-GE_AF72

PREPARATION BENCH SHEET

2K03002

Empirical Laboratories, LLC

Printed: 11/14/2012 12:53:35PM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210293-09	A	VOC_8260B_REG	11/03/2012	5	5				1	2	no quadratic calib
1211004-21	A	VOC_8260B_REG	11/03/2012	5	5				1	2	LOD verification 2.5ug/kg
1211004-22	A	VOC_8260B_REG	11/03/2012	5	5				1	2	LOD verification 2.5ug/kg
1211007-08	A	VOC_8260B_REG	11/03/2012	5	5				1	2	see versions
1211014-01	A	VOC_8260B_REG	11/03/2012	5	5				1	2	See version
1211014-02	B	VOC_8260B_REG	11/04/2012	5	5				1	2	See version
1211014-03	B	VOC_8260B_REG	11/04/2012	5	5				1	2	See version
1211017-18	A	VOC_8260B_AP9	11/03/2012	5	5				1	2	
1211018-06	A	VOC_8260B_REG	11/04/2012	5	5				1	2	see versions
1211022-01	A	VOC_8260B_REG	11/04/2012	5	5				1	2	LOD verification 2.5ug/kg
1211022-02	A	VOC_8260B_REG	11/04/2012	5	5				1	2	LOD verification 2.5ug/kg
1211026-01	A	VOC_8260B_REG	11/04/2012	5	5				1	2	
1211026-04	A	VOC_8260B_REG	11/04/2012	5	5				1	2	
1211026-09	A	VOC_8260B_REG	11/04/2012	5	5				1	2	
1211035-01	A	VOC_8260B_REG	11/04/2012	5	5				1	2	See version
1211036-23	A	VOC_8260B_REG	11/04/2012	5	5				1	2	naphthalene must be reported
1211036-24	A	VOC_8260B_REG	11/04/2012	5	5				1	2	naphthalene must be reported
1211036-25	A	VOC_8260B_REG	11/04/2012	5	5				1	2	naphthalene must be reported
2K03002-BLK1		QC	11/03/2012	5	5				1	NA	
2K03002-BS1		QC	11/03/2012	5	5	12K0033		2.5	1	NA	
2K03002-BSD1		QC	11/04/2012	5	5	12K0033		2.5	1	NA	

PREPARATION BENCH SHEET

2K03002

Empirical Laboratories, LLC

Printed: 11/14/2012 12:53:35PM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description
12A0500	Anti-foam-GE_AF72

PREPARATION BENCH SHEET

2K07005

Empirical Laboratories, LLC

Instrument: VOA5

Printed: 11/19/2012 12:37:02PM

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211016-04RE1	B	VOC_8260B_REG	11/07/2012	5	5				1	2	RR 2000x lower-ADM
1211016-08RE1	B	VOC_8260B_REG	11/07/2012	5	5				1	2	MS/MSD - RR 2000x lower-ADM
1211036-01	B	VOC_8260B_REG	11/07/2012	5	5				1	2	naphthalene must be reported
1211036-03	B	VOC_8260B_REG	11/07/2012	5	5				1	2	naphthalene must be reported 100x
1211036-05	B	VOC_8260B_REG	11/07/2012	5	5				1	2	naphthalene must be reported
1211036-07	B	VOC_8260B_REG	11/07/2012	5	5				1	2	naphthalene must be reported
1211036-09	B	VOC_8260B_REG	11/07/2012	5	5				1	2	naphthalene must be reported
1211036-11	B	VOC_8260B_REG	11/07/2012	5	5				1	2	naphthalene must be reported
1211036-13	B	VOC_8260B_REG	11/07/2012	5	5				1	2	naphthalene must be reported 100x
1211036-17	B	VOC_8260B_REG	11/07/2012	5	5				1	2	naphthalene must be reported
1211036-21	B	VOC_8260B_REG	11/07/2012	5	5				1	2	naphthalene must be reported
1211037-01	B	VOC_8260B_REG	11/07/2012	5	5				1	2	see version LODverification0.25ppb
1211037-02	B	VOC_8260B_REG	11/07/2012	5	5				1	2	see version LODverification0.25ppb 5x
1211046-01	A	VOC_8260B_REG	11/07/2012	5	5				1	2	
1211046-02	A	VOC_8260B_REG	11/07/2012	5	5				1	2	
1211046-03	A	VOC_8260B_REG	11/07/2012	5	5				1	2	
1211048-05	A	VOC_8260B_REG	11/07/2012	5	5				1	2	No Quad Cal
1211050-01	A	VOC_8260B_REG	11/07/2012	5	5				1	2	see version
2K07005-BLK1		QC	11/07/2012	5	5				1	NA	
2K07005-BS1		QC	11/07/2012	5	5	12K0033		2.5	1	NA	
2K07005-MS1		QC	11/07/2012	5	5	12K0033	1211016-08RE1	5000	1	NA	2000x
2K07005-MSD1		QC	11/07/2012	5	5	12K0033	1211016-08RE1	5000	1	NA	2000x

PREPARATION BENCH SHEET

2K07005

Empirical Laboratories, LLC

Printed: 11/19/2012 12:37:02PM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description

From 2K06018 on 11/7/2012 by ADM

PREPARATION BENCH SHEET

2K08002

Empirical Laboratories, LLC

Printed: 11/19/2012 2:09:45PM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-15	B	VOC_8260B_REG	11/08/2012	5	5				1	2	MS/MSD, naphthalene must be reported
1211037-02RE1	C	VOC_8260B_REG	11/08/2012	5	5				1	2	RR 1x lower at end-ADM
1211037-03	B	VOC_8260B_REG	11/08/2012	5	5				1	2	see version LODverification0.25ppb 5x
1211037-04	B	VOC_8260B_REG	11/08/2012	5	5				1	2	25X
1211037-05	B	VOC_8260B_REG	11/08/2012	5	5				1	2	25X
1211037-06	B	VOC_8260B_REG	11/08/2012	5	5				1	2	see version LODverification0.25ppb
1211037-07	B	VOC_8260B_REG	11/08/2012	5	5				1	2	see version LODverification0.25ppb 25x
1211037-08	B	VOC_8260B_REG	11/08/2012	5	5				1	2	see version LODverification0.25ppb 100x
1211037-09	B	VOC_8260B_REG	11/08/2012	5	5				1	2	see version LODverification0.25ppb 20x
1211037-10	B	VOC_8260B_REG	11/08/2012	5	5				1	2	see version LODverification0.25ppb 5x
1211037-11	B	VOC_8260B_REG	11/08/2012	5	5				1	2	25X
1211037-12	B	VOC_8260B_REG	11/08/2012	5	5				1	2	see version LODverification0.25ppb 10x-NO LOWER DIL./BAD MATRIX
1211037-13	B	VOC_8260B_REG	11/08/2012	5	5				1	2	see version LODverification0.25ppb 10x
1211059-01	A	VOC_8260B_REG	11/08/2012	5	5				1	2	see version
1211059-02	B	VOC_8260B_REG	11/08/2012	5	5				1	2	see version
1211059-03	B	VOC_8260B_REG	11/08/2012	5	5				1	2	see version
1211062-01	B	VOC_8260B_REG	11/08/2012	5	5				1	2	naphthalene must be reported
1211062-02	B	VOC_8260B_REG	11/08/2012	5	5				1	2	naphthalene must be reported
2K08002-BLK1		QC	11/08/2012	5	5				1	NA	
2K08002-BS1		QC	11/08/2012	5	5	12K0033		2.5	1	NA	
2K08002-MS1		QC	11/08/2012	5	5	12K0033	1211036-15	2.5	1	NA	
2K08002-MSD1		QC	11/08/2012	5	5	12K0033	1211036-15	2.5	1	NA	

PREPARATION BENCH SHEET

2K08002

Empirical Laboratories, LLC

Printed: 11/19/2012 2:09:45PM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description
12A0699	Anti-foam-JT Baker_AFB

PREPARATION BENCH SHEET

2K09002

Empirical Laboratories, LLC

Printed: 11/19/2012 2:10:48PM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-19	B	VOC_8260B_REG	11/09/2012	5	5				1	2	MS/MSD, naphthalene must be reported
1211037-03RE1	C	VOC_8260B_REG	11/09/2012	5	5				1	2	RR 2x at end-ADM
1211037-10RE1	C	VOC_8260B_REG	11/09/2012	5	5				1	2	RR 2x at end-ADM
1211059-04	A	VOC_8260B_REG	11/09/2012	5	5				1	2	see version
1211059-05	B	VOC_8260B_REG	11/09/2012	5	5				1	2	see version
1211059-06	B	VOC_8260B_REG	11/09/2012	5	5				1	2	see version
1211059-07	B	VOC_8260B_REG	11/09/2012	5	5				1	2	see version
1211061-27	A	VOC_8260B_REG	11/09/2012	5	5				1	2	
1211061-28	A	VOC_8260B_REG	11/09/2012	5	5				1	2	
1211061-29	A	VOC_8260B_REG	11/09/2012	5	5				1	2	
1211061-30	A	VOC_8260B_REG	11/09/2012	5	5				1	2	
1211066-13	A	VOC_8260B_REG	11/09/2012	5	5				1	7	naphthalene must be reported
1211067-01	A	VOC_8260B_REG	11/09/2012	5	5				1	2	See version
1211074-07	A	VOC_8260B_REG	11/09/2012	5	5				1	2	naphthalene must be reported
1211075-01	B	VOC_8260B_REG	11/09/2012	5	5				1	2	naphthalene must be reported
1211075-02	B	VOC_8260B_REG	11/09/2012	5	5				1	2	naphthalene must be reported
1211077-03	A	VOC_8260B_REG	11/09/2012	5	5				1	2	
1211080-01	A	VOC_8260B_REG	11/09/2012	5	5				1	2	see version
2K09002-BLK1		QC	11/09/2012	5	5				1	NA	
2K09002-BS1		QC	11/09/2012	5	5	12K0033		2.5	1	NA	
2K09002-MS1		QC	11/09/2012	5	5	12K0033	1211036-19	2.5	1	NA	
2K09002-MSD1		QC	11/09/2012	5	5	12K0033	1211036-19	2.5	1	NA	

PREPARATION BENCH SHEET

2K09002

Empirical Laboratories, LLC

Printed: 11/19/2012 2:10:48PM

Instrument: VOA5

Matrix: Water **Prepared using: MS - 5030B** **Surrogate used: 12F0423**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description
12A0699	Anti-foam-JT Baker_AFB

Data for SW8270D Forms

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1210292-07 [GW0848]	2K02001	1,000.00/1.00	1080	1.00	1.00			11/02/12
1210292-09 [GW0849]	2K02001	1,000.00/1.00	1000	1.00	1.00			11/02/12
1210292-11 [GW0850]	2K02001	1,000.00/1.00	1000	1.00	1.00			11/02/12

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1210292-01 [GW0786]	2K05004	1,000.00/1.00	1000	1.00	1.00			11/05/12
1210292-03 [GW0787]	2K05004	1,000.00/1.00	1000	1.00	1.00			11/05/12
1210292-05 [GW0788]	2K05004	1,000.00/1.00	1000	1.00	1.00			11/05/12

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-07 [GW0802]	2K07006	1,000.00/1.00	1080	1.00	1.00			11/07/12
1211036-09 [GW0803]	2K07006	1,000.00/1.00	1080	1.00	1.00			11/07/12
1211036-11 [GW0804]	2K07006	1,000.00/1.00	1080	1.00	1.00			11/07/12
1211036-13 [GW0812]	2K07006	1,000.00/1.00	1000	1.00	100.00			11/07/12
1211036-15 [GW0813]	2K07006	1,000.00/1.00	1000	1.00	1.00			11/07/12
1211036-17 [GW0814]	2K07006	1,000.00/1.00	1000	1.00	1.00			11/07/12
1211036-19 [GW0832]	2K07006	1,000.00/1.00	1000	1.00	1.00			11/07/12

Sample Extraction Data

Prep Method: EXT_3510-SW8270D

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-01 [GW0755]	2K08004	1,000.00/1.00	1020	1.00	1.00			11/08/12
1211036-03 [GW0762]	2K08004	1,000.00/1.00	1020	1.00	100.00			11/08/12
1211036-05 [GW0763]	2K08004	1,000.00/1.00	1040	1.00	1.00			11/08/12
1211036-21 [GW0833]	2K08004	1,000.00/1.00	1000	1.00	1.00			11/08/12

ANALYSIS DATA SHEET

GW0786

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-01	File ID:	1029201.D
Sampled:	10/30/12 15:41	Prepared:	11/05/12 14:30	Analyzed:	11/17/12 00:25
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K05004 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	UQ
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	UQ
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	UQ
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	UQ
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	UQ
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	UQ
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	UQ
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	UQ
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	UQ
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	UQ
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UQ
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	UQ
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	UQ
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0786

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-01	File ID:	1029201.D
Sampled:	10/30/12 15:41	Prepared:	11/05/12 14:30	Analyzed:	11/17/12 00:25
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K05004 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	UQ
206-44-0	Fluoranthene		1.25	2.50	5.00	UQ
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	UQ
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	UQ
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	UQ
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	UQ
88-75-5	2-Nitrophenol		1.25	2.50	5.00	UXQ
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	42.46	84.9	50 - 110	
2-Fluorophenol	100.0	44.89	44.9	20 - 110	
Nitrobenzene-d5	50.00	42.97	85.9	40 - 110	
Phenol-d6	100.0	27.20	27.2	0 - 110	
Terphenyl-d14	50.00	52.62	105	50 - 135	
2,4,6-Tribromophenol	100.0	98.84	98.8	40 - 125	

ANALYSIS DATA SHEET

GW0787

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-03	File ID:	1029203.D
Sampled:	10/30/12 13:25	Prepared:	11/05/12 14:30	Analyzed:	11/17/12 00:53
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K05004 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	UQ
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	UQ
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	UQ
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	UQ
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	UQ
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	UQ
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	UQ
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	UQ
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	UQ
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	UQ
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UQ
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	UQ
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	UQ
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0787

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-03	File ID:	1029203.D
Sampled:	10/30/12 13:25	Prepared:	11/05/12 14:30	Analyzed:	11/17/12 00:53
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K05004 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	UQ
206-44-0	Fluoranthene		1.25	2.50	5.00	UQ
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	UQ
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	UQ
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	UQ
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	UQ
88-75-5	2-Nitrophenol		1.25	2.50	5.00	UXQ
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	41.06	82.1	50 - 110	
2-Fluorophenol	100.0	45.13	45.1	20 - 110	
Nitrobenzene-d5	50.00	41.36	82.7	40 - 110	
Phenol-d6	100.0	25.98	26.0	0 - 110	
Terphenyl-d14	50.00	51.84	104	50 - 135	
2,4,6-Tribromophenol	100.0	96.84	96.8	40 - 125	

ANALYSIS DATA SHEET

GW0788

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-05	File ID:	1029205.D
Sampled:	10/30/12 11:05	Prepared:	11/05/12 14:30	Analyzed:	11/17/12 01:20
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K05004 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	UQ
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	UQ
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	UQ
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	UQ
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	UQ
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	UQ
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	UQ
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	UQ
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	UQ
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	UQ
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UQ
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	UQ
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	UQ
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0788

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-05	File ID:	1029205.D
Sampled:	10/30/12 11:05	Prepared:	11/05/12 14:30	Analyzed:	11/17/12 01:20
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K05004 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	UQ
206-44-0	Fluoranthene		1.25	2.50	5.00	UQ
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	UQ
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	UQ
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	UQ
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	UQ
88-75-5	2-Nitrophenol		1.25	2.50	5.00	UXQ
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	39.41	78.8	50 - 110	
2-Fluorophenol	100.0	40.25	40.3	20 - 110	
Nitrobenzene-d5	50.00	39.38	78.8	40 - 110	
Phenol-d6	100.0	24.17	24.2	0 - 110	
Terphenyl-d14	50.00	53.27	107	50 - 135	
2,4,6-Tribromophenol	100.0	96.52	96.5	40 - 125	

ANALYSIS DATA SHEET

GW0848

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-07	File ID:	1029207.D
Sampled:	10/29/12 16:50	Prepared:	11/02/12 08:37	Analyzed:	11/16/12 19:21
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K02001 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.16	2.31	4.63	U
208-96-8	Acenaphthylene		1.16	2.31	4.63	U
98-86-2	Acetophenone		1.16	2.31	4.63	U
120-12-7	Anthracene		1.16	2.31	4.63	U
1912-24-9	Atrazine		1.16	2.31	4.63	U
100-52-7	Benzaldehyde		1.16	2.31	4.63	U
92-87-5	Benzidine		11.6	46.3	92.6	UX
56-55-3	Benzo(a)anthracene		1.16	2.31	4.63	U
50-32-8	Benzo(a)pyrene		1.16	2.31	4.63	U
205-99-2	Benzo(b)fluoranthene		1.16	2.31	4.63	U
191-24-2	Benzo(g,h,i)perylene		1.16	2.31	4.63	U
65-85-0	Benzoic acid		11.6	46.3	92.6	U
207-08-9	Benzo(k)fluoranthene		1.16	2.31	4.63	U
92-52-4	1,1-Biphenyl		1.16	2.31	4.63	U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	U
105-60-2	Caprolactam		1.16	2.31	4.63	UX
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.16	2.31	4.63	U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	U
218-01-9	Chrysene		1.16	2.31	4.63	U
53-70-3	Dibenz(a,h)anthracene		1.16	2.31	4.63	U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	U
120-83-2	2,4-Dichlorophenol		1.16	2.31	4.63	U
84-66-2	Diethylphthalate		1.16	2.31	4.63	U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	U
51-28-5	2,4-Dinitrophenol		7.71	23.1	46.3	U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	U

ANALYSIS DATA SHEET

GW0848

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-07	File ID:	1029207.D
Sampled:	10/29/12 16:50	Prepared:	11/02/12 08:37	Analyzed:	11/16/12 19:21
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K02001 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	U
206-44-0	Fluoranthene		1.16	2.31	4.63	U
86-73-7	Fluorene		1.16	2.31	4.63	U
118-74-1	Hexachlorobenzene		1.16	2.31	4.63	U
87-68-3	Hexachlorobutadiene		1.16	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	4.63	9.26	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
90-12-0	1-Methylnaphthalene		1.16	2.31	4.63	U
91-57-6	2-Methylnaphthalene		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		4.63	9.26	18.5	U
99-09-2	3-Nitroaniline		4.63	9.26	18.5	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	U
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	UX
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
87-86-5	Pentachlorophenol		4.63	9.26	18.5	U
85-01-8	Phenanthrene		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
129-00-0	Pyrene		1.16	2.31	4.63	U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		1.16	2.31	4.63	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	20.50	44.3	50 - 110	*
2-Fluorophenol	92.59	26.46	28.6	20 - 110	
Nitrobenzene-d5	46.30	19.88	42.9	40 - 110	
Phenol-d6	92.59	18.95	20.5	0 - 110	
Terphenyl-d14	46.30	24.65	53.2	50 - 135	
2,4,6-Tribromophenol	92.59	38.58	41.7	40 - 125	

ANALYSIS DATA SHEET

GW0849

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-09	File ID:	1029209.D
Sampled:	10/29/12 14:00	Prepared:	11/02/12 08:37	Analyzed:	11/16/12 19:48
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K02001 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	NU
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	NU
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	NU
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	NU
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	NU
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0849

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-09	File ID:	1029209.D
Sampled:	10/29/12 14:00	Prepared:	11/02/12 08:37	Analyzed:	11/16/12 19:48
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K02001 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	NUX
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	NU
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	NU
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	NU

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	43.07	86.1	50 - 110	
2-Fluorophenol	100.0	19.35	19.4	20 - 110	*
Nitrobenzene-d5	50.00	43.74	87.5	40 - 110	
Phenol-d6	100.0	18.43	18.4	0 - 110	
Terphenyl-d14	50.00	49.61	99.2	50 - 135	
2,4,6-Tribromophenol	100.0	45.52	45.5	40 - 125	

ANALYSIS DATA SHEET

GW0850

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-11	File ID:	1029211.D
Sampled:	10/29/12 11:17	Prepared:	11/02/12 08:37	Analyzed:	11/16/12 21:12
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K02001 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0850

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-11	File ID:	1029211.D
Sampled:	10/29/12 11:17	Prepared:	11/02/12 08:37	Analyzed:	11/16/12 21:12
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K02001 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	UX
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	38.13	76.3	50 - 110	
2-Fluorophenol	100.0	36.70	36.7	20 - 110	
Nitrobenzene-d5	50.00	37.65	75.3	40 - 110	
Phenol-d6	100.0	22.11	22.1	0 - 110	
Terphenyl-d14	50.00	51.89	104	50 - 135	
2,4,6-Tribromophenol	100.0	81.11	81.1	40 - 125	

ANALYSIS DATA SHEET

GW0755

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-01	File ID:	1103601.D
Sampled:	11/01/12 12:13	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 14:57
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	49.0	98.0	UX
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	UX
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	49.0	98.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	U
105-60-2	Caprolactam		1.23	2.45	4.90	UX
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	UX
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	UX
51-28-5	2,4-Dinitrophenol		8.17	24.5	49.0	U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	U

ANALYSIS DATA SHEET

GW0755

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-01	File ID:	1103601.D
Sampled:	11/01/12 12:13	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 14:57
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.23	2.45	4.90	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.23	2.45	4.90	U
206-44-0	Fluoranthene		1.23	2.45	4.90	U
86-73-7	Fluorene		1.23	2.45	4.90	U
118-74-1	Hexachlorobenzene		1.23	2.45	4.90	U
87-68-3	Hexachlorobutadiene		1.23	2.45	4.90	U
77-47-4	Hexachlorocyclopentadiene		1.23	4.90	9.80	U
67-72-1	Hexachloroethane		1.23	2.45	4.90	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	U
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	UX
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	U
85-01-8	Phenanthrene		1.23	2.45	4.90	U
108-95-2	Phenol		1.23	2.45	4.90	U
129-00-0	Pyrene		1.23	2.45	4.90	U
88-06-2	2,4,6-Trichlorophenol		1.23	2.45	4.90	U
95-95-4	2,4,5-Trichlorophenol		1.23	2.45	4.90	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	40.48	82.6	50 - 110	
2-Fluorophenol	98.04	28.62	29.2	20 - 110	
Nitrobenzene-d5	49.02	42.22	86.1	40 - 110	
Phenol-d6	98.04	21.10	21.5	0 - 110	
Terphenyl-d14	49.02	47.68	97.3	50 - 135	X
2,4,6-Tribromophenol	98.04	55.58	56.7	40 - 125	

ANALYSIS DATA SHEET

GW0762

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-03	File ID:	1103603D.D
Sampled:	11/01/12 15:33	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 15:25
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		123	245	490	U
208-96-8	Acenaphthylene		123	245	490	U
98-86-2	Acetophenone	**6540**	123	245	490	D
120-12-7	Anthracene		123	245	490	U
1912-24-9	Atrazine		123	245	490	U
100-52-7	Benzaldehyde		123	245	490	U
92-87-5	Benzidine		1230	4900	9800	UX
56-55-3	Benzo(a)anthracene		123	245	490	U
50-32-8	Benzo(a)pyrene		123	245	490	U
205-99-2	Benzo(b)fluoranthene		123	245	490	UX
191-24-2	Benzo(g,h,i)perylene		123	245	490	U
65-85-0	Benzoic acid		1230	4900	9800	U
207-08-9	Benzo(k)fluoranthene		123	245	490	U
92-52-4	1,1-Biphenyl		123	245	490	U
101-55-3	4-Bromophenyl-phenylether		123	245	490	U
85-68-7	Butylbenzylphthalate		123	245	490	U
105-60-2	Caprolactam		123	245	490	UX
86-74-8	Carbazole		123	245	490	U
59-50-7	4-Chloro-3-methylphenol		123	245	490	U
106-47-8	4-Chloroaniline		123	245	490	U
111-91-1	Bis(2-chloroethoxy)methane		123	245	490	U
111-44-4	Bis(2-chloroethyl)ether		123	245	490	U
108-60-1	2,2'-Oxybis-1-chloropropane		123	245	490	U
91-58-7	2-Chloronaphthalene		123	245	490	U
95-57-8	2-Chlorophenol		123	245	490	U
7005-72-3	4-Chlorophenyl phenyl ether		123	245	490	U
218-01-9	Chrysene		123	245	490	U
53-70-3	Dibenz(a,h)anthracene		123	245	490	U
132-64-9	Dibenzofuran		123	245	490	U
84-74-2	Di-n-butylphthalate		123	245	490	U
91-94-1	3,3'-Dichlorobenzidine		123	245	490	UX
120-83-2	2,4-Dichlorophenol		123	245	490	U
84-66-2	Diethylphthalate		123	245	490	U
105-67-9	2,4-Dimethylphenol		490	980	1960	U
131-11-3	Dimethyl phthalate		123	245	490	U
534-52-1	4,6-Dinitro-2-methylphenol		490	980	1960	UX
51-28-5	2,4-Dinitrophenol		817	2450	4900	U
121-14-2	2,4-Dinitrotoluene		123	245	490	U
606-20-2	2,6-Dinitrotoluene		123	245	490	U
117-84-0	Di-n-octylphthalate		123	245	490	U

ANALYSIS DATA SHEET

GW0762

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-03	File ID:	1103603D.D
Sampled:	11/01/12 15:33	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 15:25
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		123	245	490	U
117-81-7	Bis(2-ethylhexyl)phthalate		123	245	490	U
206-44-0	Fluoranthene		123	245	490	U
86-73-7	Fluorene		123	245	490	U
118-74-1	Hexachlorobenzene		123	245	490	U
87-68-3	Hexachlorobutadiene		123	245	490	U
77-47-4	Hexachlorocyclopentadiene		123	490	980	U
67-72-1	Hexachloroethane		123	245	490	U
193-39-5	Indeno(1,2,3-cd)pyrene		123	245	490	U
78-59-1	Isophorone		123	245	490	U
90-12-0	1-Methylnaphthalene		123	245	490	U
91-57-6	2-Methylnaphthalene		123	245	490	U
95-48-7	2-Methylphenol		123	245	490	U
108-39-4/106	3-Methylphenol/4-Methylphenol		123	245	490	U
91-20-3	Naphthalene	**148**	123	245	490	JD
100-01-6	4-Nitroaniline		490	980	1960	U
99-09-2	3-Nitroaniline		490	980	1960	U
88-74-4	2-Nitroaniline		490	980	1960	U
98-95-3	Nitrobenzene		123	245	490	U
100-02-7	4-Nitrophenol		490	980	1960	U
88-75-5	2-Nitrophenol		123	245	490	UX
86-30-6	N-Nitrosodiphenylamine		123	245	490	U
621-64-7	N-Nitroso-di-n-propylamine		123	245	490	U
87-86-5	Pentachlorophenol		490	980	1960	U
85-01-8	Phenanthrene		123	245	490	U
108-95-2	Phenol		123	245	490	U
129-00-0	Pyrene		123	245	490	U
88-06-2	2,4,6-Trichlorophenol		123	245	490	U
95-95-4	2,4,5-Trichlorophenol		123	245	490	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	ND		50 - 110	DU
2-Fluorophenol	98.04	ND		20 - 110	DU
Nitrobenzene-d5	49.02	ND		40 - 110	DU
Phenol-d6	98.04	ND		0 - 110	DU
Terphenyl-d14	49.02	ND		50 - 135	DX, U
2,4,6-Tribromophenol	98.04	ND		40 - 125	DU

ANALYSIS DATA SHEET

GW0763

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-05	File ID:	1103605.D
Sampled:	11/01/12 09:34	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 15:52
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	U
100-52-7	Benzaldehyde		1.20	2.40	4.81	U
92-87-5	Benzidine		12.0	48.1	96.2	UX
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	UX
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	48.1	96.2	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	U
105-60-2	Caprolactam		1.20	2.40	4.81	UX
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	UX
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	UX
51-28-5	2,4-Dinitrophenol		8.01	24.0	48.1	U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	U

ANALYSIS DATA SHEET

GW0763

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-05	File ID:	1103605.D
Sampled:	11/01/12 09:34	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 15:52
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.20	2.40	4.81	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.20	2.40	4.81	U
206-44-0	Fluoranthene		1.20	2.40	4.81	U
86-73-7	Fluorene		1.20	2.40	4.81	U
118-74-1	Hexachlorobenzene		1.20	2.40	4.81	U
87-68-3	Hexachlorobutadiene		1.20	2.40	4.81	U
77-47-4	Hexachlorocyclopentadiene		1.20	4.81	9.62	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.20	2.40	4.81	U
91-20-3	Naphthalene		1.20	2.40	4.81	U
100-01-6	4-Nitroaniline		4.81	9.62	19.2	U
99-09-2	3-Nitroaniline		4.81	9.62	19.2	U
88-74-4	2-Nitroaniline		4.81	9.62	19.2	U
98-95-3	Nitrobenzene		1.20	2.40	4.81	U
100-02-7	4-Nitrophenol		4.81	9.62	19.2	U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	UX
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	U
87-86-5	Pentachlorophenol		4.81	9.62	19.2	U
85-01-8	Phenanthrene		1.20	2.40	4.81	U
108-95-2	Phenol		1.20	2.40	4.81	U
129-00-0	Pyrene		1.20	2.40	4.81	U
88-06-2	2,4,6-Trichlorophenol		1.20	2.40	4.81	U
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	40.00	83.2	50 - 110	
2-Fluorophenol	96.15	36.05	37.5	20 - 110	
Nitrobenzene-d5	48.08	39.44	82.0	40 - 110	
Phenol-d6	96.15	20.97	21.8	0 - 110	
Terphenyl-d14	48.08	46.81	97.4	50 - 135	X
2,4,6-Tribromophenol	96.15	80.73	84.0	40 - 125	

ANALYSIS DATA SHEET

GW0802

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-07	File ID:	1103607.D
Sampled:	10/31/12 15:32	Prepared:	11/07/12 09:45	Analyzed:	11/13/12 23:01
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.16	2.31	4.63	U
208-96-8	Acenaphthylene		1.16	2.31	4.63	U
98-86-2	Acetophenone		1.16	2.31	4.63	U
120-12-7	Anthracene		1.16	2.31	4.63	U
1912-24-9	Atrazine		1.16	2.31	4.63	U
100-52-7	Benzaldehyde		1.16	2.31	4.63	U
92-87-5	Benzidine		11.6	46.3	92.6	UX
56-55-3	Benzo(a)anthracene		1.16	2.31	4.63	U
50-32-8	Benzo(a)pyrene		1.16	2.31	4.63	U
205-99-2	Benzo(b)fluoranthene		1.16	2.31	4.63	U
191-24-2	Benzo(g,h,i)perylene		1.16	2.31	4.63	U
65-85-0	Benzoic acid		11.6	46.3	92.6	U
207-08-9	Benzo(k)fluoranthene		1.16	2.31	4.63	U
92-52-4	1,1-Biphenyl		1.16	2.31	4.63	U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	U
105-60-2	Caprolactam		1.16	2.31	4.63	UX
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.16	2.31	4.63	U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	U
218-01-9	Chrysene		1.16	2.31	4.63	U
53-70-3	Dibenz(a,h)anthracene		1.16	2.31	4.63	U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	UX
120-83-2	2,4-Dichlorophenol		1.16	2.31	4.63	U
84-66-2	Diethylphthalate		1.16	2.31	4.63	U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	UX
51-28-5	2,4-Dinitrophenol		7.71	23.1	46.3	UX
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	UX

ANALYSIS DATA SHEET

GW0802

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-07	File ID:	1103607.D
Sampled:	10/31/12 15:32	Prepared:	11/07/12 09:45	Analyzed:	11/13/12 23:01
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	U
206-44-0	Fluoranthene		1.16	2.31	4.63	U
86-73-7	Fluorene		1.16	2.31	4.63	U
118-74-1	Hexachlorobenzene		1.16	2.31	4.63	U
87-68-3	Hexachlorobutadiene		1.16	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	4.63	9.26	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
90-12-0	1-Methylnaphthalene		1.16	2.31	4.63	U
91-57-6	2-Methylnaphthalene		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		4.63	9.26	18.5	U
99-09-2	3-Nitroaniline		4.63	9.26	18.5	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	U
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	UX
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
87-86-5	Pentachlorophenol		4.63	9.26	18.5	U
85-01-8	Phenanthrene		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
129-00-0	Pyrene		1.16	2.31	4.63	U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		1.16	2.31	4.63	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	39.43	85.2	50 - 110	
2-Fluorophenol	92.59	24.76	26.7	20 - 110	
Nitrobenzene-d5	46.30	39.21	84.7	40 - 110	
Phenol-d6	92.59	17.82	19.2	0 - 110	
Terphenyl-d14	46.30	45.68	98.7	50 - 135	X
2,4,6-Tribromophenol	92.59	59.37	64.1	40 - 125	

ANALYSIS DATA SHEET

GW0803

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-09	File ID:	1103609.D
Sampled:	10/31/12 13:17	Prepared:	11/07/12 09:45	Analyzed:	11/13/12 23:28
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.16	2.31	4.63	U
208-96-8	Acenaphthylene		1.16	2.31	4.63	U
98-86-2	Acetophenone		1.16	2.31	4.63	U
120-12-7	Anthracene		1.16	2.31	4.63	U
1912-24-9	Atrazine		1.16	2.31	4.63	U
100-52-7	Benzaldehyde		1.16	2.31	4.63	U
92-87-5	Benzidine		11.6	46.3	92.6	UX
56-55-3	Benzo(a)anthracene		1.16	2.31	4.63	U
50-32-8	Benzo(a)pyrene		1.16	2.31	4.63	U
205-99-2	Benzo(b)fluoranthene		1.16	2.31	4.63	U
191-24-2	Benzo(g,h,i)perylene		1.16	2.31	4.63	U
65-85-0	Benzoic acid		11.6	46.3	92.6	U
207-08-9	Benzo(k)fluoranthene		1.16	2.31	4.63	U
92-52-4	1,1-Biphenyl		1.16	2.31	4.63	U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	U
105-60-2	Caprolactam		1.16	2.31	4.63	UX
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.16	2.31	4.63	U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	U
218-01-9	Chrysene		1.16	2.31	4.63	U
53-70-3	Dibenz(a,h)anthracene		1.16	2.31	4.63	U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	UX
120-83-2	2,4-Dichlorophenol		1.16	2.31	4.63	U
84-66-2	Diethylphthalate		1.16	2.31	4.63	U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	UX
51-28-5	2,4-Dinitrophenol		7.71	23.1	46.3	UX
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	UX

ANALYSIS DATA SHEET

GW0803

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-09	File ID:	1103609.D
Sampled:	10/31/12 13:17	Prepared:	11/07/12 09:45	Analyzed:	11/13/12 23:28
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	U
206-44-0	Fluoranthene		1.16	2.31	4.63	U
86-73-7	Fluorene		1.16	2.31	4.63	U
118-74-1	Hexachlorobenzene		1.16	2.31	4.63	U
87-68-3	Hexachlorobutadiene		1.16	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	4.63	9.26	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
90-12-0	1-Methylnaphthalene		1.16	2.31	4.63	U
91-57-6	2-Methylnaphthalene		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		4.63	9.26	18.5	U
99-09-2	3-Nitroaniline		4.63	9.26	18.5	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	U
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	UX
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
87-86-5	Pentachlorophenol		4.63	9.26	18.5	U
85-01-8	Phenanthrene		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
129-00-0	Pyrene		1.16	2.31	4.63	U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		1.16	2.31	4.63	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	28.81	62.2	50 - 110	
2-Fluorophenol	92.59	27.70	29.9	20 - 110	
Nitrobenzene-d5	46.30	29.12	62.9	40 - 110	
Phenol-d6	92.59	16.59	17.9	0 - 110	
Terphenyl-d14	46.30	36.55	79.0	50 - 135	X
2,4,6-Tribromophenol	92.59	62.39	67.4	40 - 125	

ANALYSIS DATA SHEET

GW0804

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-11	File ID:	1103611.D
Sampled:	10/31/12 10:51	Prepared:	11/07/12 09:45	Analyzed:	11/13/12 23:55
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.16	2.31	4.63	U
208-96-8	Acenaphthylene		1.16	2.31	4.63	U
98-86-2	Acetophenone		1.16	2.31	4.63	U
120-12-7	Anthracene		1.16	2.31	4.63	U
1912-24-9	Atrazine		1.16	2.31	4.63	U
100-52-7	Benzaldehyde		1.16	2.31	4.63	U
92-87-5	Benzidine		11.6	46.3	92.6	UX
56-55-3	Benzo(a)anthracene		1.16	2.31	4.63	U
50-32-8	Benzo(a)pyrene		1.16	2.31	4.63	U
205-99-2	Benzo(b)fluoranthene		1.16	2.31	4.63	U
191-24-2	Benzo(g,h,i)perylene		1.16	2.31	4.63	U
65-85-0	Benzoic acid		11.6	46.3	92.6	U
207-08-9	Benzo(k)fluoranthene		1.16	2.31	4.63	U
92-52-4	1,1-Biphenyl		1.16	2.31	4.63	U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	U
105-60-2	Caprolactam		1.16	2.31	4.63	UX
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.16	2.31	4.63	U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	U
218-01-9	Chrysene		1.16	2.31	4.63	U
53-70-3	Dibenz(a,h)anthracene		1.16	2.31	4.63	U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	UX
120-83-2	2,4-Dichlorophenol		1.16	2.31	4.63	U
84-66-2	Diethylphthalate		1.16	2.31	4.63	U
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	UX
51-28-5	2,4-Dinitrophenol		7.71	23.1	46.3	UX
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	UX

ANALYSIS DATA SHEET

GW0804

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-11	File ID:	1103611.D
Sampled:	10/31/12 10:51	Prepared:	11/07/12 09:45	Analyzed:	11/13/12 23:55
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	U
206-44-0	Fluoranthene		1.16	2.31	4.63	U
86-73-7	Fluorene		1.16	2.31	4.63	U
118-74-1	Hexachlorobenzene		1.16	2.31	4.63	U
87-68-3	Hexachlorobutadiene		1.16	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	4.63	9.26	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.16	2.31	4.63	U
78-59-1	Isophorone		1.16	2.31	4.63	U
90-12-0	1-Methylnaphthalene		1.16	2.31	4.63	U
91-57-6	2-Methylnaphthalene		1.16	2.31	4.63	U
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.16	2.31	4.63	U
91-20-3	Naphthalene		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		4.63	9.26	18.5	U
99-09-2	3-Nitroaniline		4.63	9.26	18.5	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	U
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	UX
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
87-86-5	Pentachlorophenol		4.63	9.26	18.5	U
85-01-8	Phenanthrene		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
129-00-0	Pyrene		1.16	2.31	4.63	U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		1.16	2.31	4.63	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	39.71	85.8	50 - 110	
2-Fluorophenol	92.59	37.15	40.1	20 - 110	
Nitrobenzene-d5	46.30	39.52	85.4	40 - 110	
Phenol-d6	92.59	20.86	22.5	0 - 110	
Terphenyl-d14	46.30	47.91	103	50 - 135	X
2,4,6-Tribromophenol	92.59	89.90	97.1	40 - 125	

ANALYSIS DATA SHEET

GW0812

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-13	File ID:	1103613D.D
Sampled:	10/31/12 16:27	Prepared:	11/07/12 09:45	Analyzed:	11/14/12 00:23
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		125	250	500	U
208-96-8	Acenaphthylene		125	250	500	U
98-86-2	Acetophenone	**6420**	125	250	500	D
120-12-7	Anthracene		125	250	500	U
1912-24-9	Atrazine		125	250	500	U
100-52-7	Benzaldehyde		125	250	500	U
92-87-5	Benzidine		1250	5000	10000	UX
56-55-3	Benzo(a)anthracene		125	250	500	U
50-32-8	Benzo(a)pyrene		125	250	500	U
205-99-2	Benzo(b)fluoranthene		125	250	500	U
191-24-2	Benzo(g,h,i)perylene		125	250	500	U
65-85-0	Benzoic acid		1250	5000	10000	U
207-08-9	Benzo(k)fluoranthene		125	250	500	U
92-52-4	1,1-Biphenyl		125	250	500	U
101-55-3	4-Bromophenyl-phenylether		125	250	500	U
85-68-7	Butylbenzylphthalate		125	250	500	U
105-60-2	Caprolactam		125	250	500	UX
86-74-8	Carbazole		125	250	500	U
59-50-7	4-Chloro-3-methylphenol		125	250	500	U
106-47-8	4-Chloroaniline		125	250	500	U
111-91-1	Bis(2-chloroethoxy)methane		125	250	500	U
111-44-4	Bis(2-chloroethyl)ether		125	250	500	U
108-60-1	2,2'-Oxybis-1-chloropropane		125	250	500	U
91-58-7	2-Chloronaphthalene		125	250	500	U
95-57-8	2-Chlorophenol		125	250	500	U
7005-72-3	4-Chlorophenyl phenyl ether		125	250	500	U
218-01-9	Chrysene		125	250	500	U
53-70-3	Dibenz(a,h)anthracene		125	250	500	U
132-64-9	Dibenzofuran		125	250	500	U
84-74-2	Di-n-butylphthalate		125	250	500	U
91-94-1	3,3'-Dichlorobenzidine		125	250	500	UX
120-83-2	2,4-Dichlorophenol		125	250	500	U
84-66-2	Diethylphthalate		125	250	500	U
105-67-9	2,4-Dimethylphenol		500	1000	2000	U
131-11-3	Dimethyl phthalate		125	250	500	U
534-52-1	4,6-Dinitro-2-methylphenol		500	1000	2000	UX
51-28-5	2,4-Dinitrophenol		833	2500	5000	UX
121-14-2	2,4-Dinitrotoluene		125	250	500	U
606-20-2	2,6-Dinitrotoluene		125	250	500	U
117-84-0	Di-n-octylphthalate		125	250	500	UX

ANALYSIS DATA SHEET

GW0812

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-13	File ID:	1103613D.D
Sampled:	10/31/12 16:27	Prepared:	11/07/12 09:45	Analyzed:	11/14/12 00:23
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		125	250	500	U
117-81-7	Bis(2-ethylhexyl)phthalate		125	250	500	U
206-44-0	Fluoranthene		125	250	500	U
86-73-7	Fluorene		125	250	500	U
118-74-1	Hexachlorobenzene		125	250	500	U
87-68-3	Hexachlorobutadiene		125	250	500	U
77-47-4	Hexachlorocyclopentadiene		125	500	1000	U
67-72-1	Hexachloroethane		125	250	500	U
193-39-5	Indeno(1,2,3-cd)pyrene		125	250	500	U
78-59-1	Isophorone		125	250	500	U
90-12-0	1-Methylnaphthalene		125	250	500	U
91-57-6	2-Methylnaphthalene		125	250	500	U
95-48-7	2-Methylphenol		125	250	500	U
108-39-4/106	3-Methylphenol/4-Methylphenol		125	250	500	U
91-20-3	Naphthalene	**155**	125	250	500	JD
100-01-6	4-Nitroaniline		500	1000	2000	U
99-09-2	3-Nitroaniline		500	1000	2000	U
88-74-4	2-Nitroaniline		500	1000	2000	U
98-95-3	Nitrobenzene		125	250	500	U
100-02-7	4-Nitrophenol		500	1000	2000	U
88-75-5	2-Nitrophenol		125	250	500	UX
86-30-6	N-Nitrosodiphenylamine		125	250	500	U
621-64-7	N-Nitroso-di-n-propylamine		125	250	500	U
87-86-5	Pentachlorophenol		500	1000	2000	U
85-01-8	Phenanthrene		125	250	500	U
108-95-2	Phenol		125	250	500	U
129-00-0	Pyrene		125	250	500	U
88-06-2	2,4,6-Trichlorophenol		125	250	500	U
95-95-4	2,4,5-Trichlorophenol		125	250	500	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	ND		50 - 110	DU
2-Fluorophenol	100.0	ND		20 - 110	DU
Nitrobenzene-d5	50.00	ND		40 - 110	DU
Phenol-d6	100.0	ND		0 - 110	DU
Terphenyl-d14	50.00	ND		50 - 135	DX, U
2,4,6-Tribromophenol	100.0	ND		40 - 125	DU

ANALYSIS DATA SHEET

GW0813

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-15	File ID:	1103615.D
Sampled:	10/31/12 13:44	Prepared:	11/07/12 09:45	Analyzed:	11/14/12 00:51
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	NU
208-96-8	Acenaphthylene		1.25	2.50	5.00	NU
98-86-2	Acetophenone		1.25	2.50	5.00	NU
120-12-7	Anthracene		1.25	2.50	5.00	NU
1912-24-9	Atrazine		1.25	2.50	5.00	NU
100-52-7	Benzaldehyde		1.25	2.50	5.00	NU
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	NU
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	NU
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	NU
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	NU
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	NU
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	NU
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	NU
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	NU
105-60-2	Caprolactam		1.25	2.50	5.00	NUX
86-74-8	Carbazole		1.25	2.50	5.00	NU
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	NU
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	NU
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	NU
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	NU
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	NU
95-57-8	2-Chlorophenol		1.25	2.50	5.00	NU
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	NU
218-01-9	Chrysene		1.25	2.50	5.00	NU
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	NU
132-64-9	Dibenzofuran		1.25	2.50	5.00	NU
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	NU
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	NUX
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	NU
84-66-2	Diethylphthalate		1.25	2.50	5.00	NU
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	NU
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	NU
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	NUX
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	NUX
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	NU
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	NU
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	NUX

ANALYSIS DATA SHEET

GW0813

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-15	File ID:	1103615.D
Sampled:	10/31/12 13:44	Prepared:	11/07/12 09:45	Analyzed:	11/14/12 00:51
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	NU
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	NU
206-44-0	Fluoranthene		1.25	2.50	5.00	NU
86-73-7	Fluorene		1.25	2.50	5.00	NU
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	NU
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	NU
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	NU
67-72-1	Hexachloroethane		1.25	2.50	5.00	NU
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	NU
78-59-1	Isophorone		1.25	2.50	5.00	NU
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	NU
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	NU
95-48-7	2-Methylphenol		1.25	2.50	5.00	NU
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	NU
91-20-3	Naphthalene		1.25	2.50	5.00	NU
100-01-6	4-Nitroaniline		5.00	10.0	20.0	NU
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	NU
98-95-3	Nitrobenzene		1.25	2.50	5.00	NU
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	NUX
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	NU
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	NU
87-86-5	Pentachlorophenol		5.00	10.0	20.0	NU
85-01-8	Phenanthrene		1.25	2.50	5.00	NU
108-95-2	Phenol		1.25	2.50	5.00	NU
129-00-0	Pyrene		1.25	2.50	5.00	NU
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	NU
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	NU

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	43.75	87.5	50 - 110	
2-Fluorophenol	100.0	44.20	44.2	20 - 110	
Nitrobenzene-d5	50.00	43.06	86.1	40 - 110	
Phenol-d6	100.0	27.05	27.1	0 - 110	
Terphenyl-d14	50.00	51.66	103	50 - 135	X
2,4,6-Tribromophenol	100.0	94.00	94.0	40 - 125	

ANALYSIS DATA SHEET

GW0814

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-17	File ID:	1103617.D
Sampled:	10/31/12 11:21	Prepared:	11/07/12 09:45	Analyzed:	11/14/12 01:18
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	UX
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	UX
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	UX

ANALYSIS DATA SHEET

GW0814

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-17	File ID:	1103617.D
Sampled:	10/31/12 11:21	Prepared:	11/07/12 09:45	Analyzed:	11/14/12 01:18
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	UX
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	37.34	74.7	50 - 110	
2-Fluorophenol	100.0	38.03	38.0	20 - 110	
Nitrobenzene-d5	50.00	37.31	74.6	40 - 110	
Phenol-d6	100.0	23.15	23.1	0 - 110	
Terphenyl-d14	50.00	52.16	104	50 - 135	X
2,4,6-Tribromophenol	100.0	91.46	91.5	40 - 125	

ANALYSIS DATA SHEET

GW0832

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-19	File ID:	1103619.D
Sampled:	11/01/12 13:37	Prepared:	11/07/12 09:45	Analyzed:	11/14/12 01:46
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	NUX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	UX
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	NUX
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	UX

ANALYSIS DATA SHEET

GW0832

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-19	File ID:	1103619.D
Sampled:	11/01/12 13:37	Prepared:	11/07/12 09:45	Analyzed:	11/14/12 01:46
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	UX
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	36.70	73.4	50 - 110	
2-Fluorophenol	100.0	35.58	35.6	20 - 110	
Nitrobenzene-d5	50.00	37.90	75.8	40 - 110	
Phenol-d6	100.0	21.94	21.9	0 - 110	
Terphenyl-d14	50.00	45.88	91.8	50 - 135	X
2,4,6-Tribromophenol	100.0	77.33	77.3	40 - 125	

ANALYSIS DATA SHEET

GW0833

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-21	File ID:	1103621.D
Sampled:	11/01/12 11:17	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 16:20
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	UX
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	UX
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0833

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-21	File ID:	1103621.D
Sampled:	11/01/12 11:17	Prepared:	11/08/12 09:35	Analyzed:	11/14/12 16:20
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	UX
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

Total Target Analytes Reported: 69

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	40.32	80.6	50 - 110	
2-Fluorophenol	100.0	40.90	40.9	20 - 110	
Nitrobenzene-d5	50.00	40.10	80.2	40 - 110	
Phenol-d6	100.0	24.01	24.0	0 - 110	
Terphenyl-d14	50.00	48.44	96.9	50 - 135	X
2,4,6-Tribromophenol	100.0	84.19	84.2	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31903	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31903-CCV1) ug/mL				Lab File ID: SEQ-CC1E.D		Analyzed: 11/13/12 18:52		
2-Fluorobiphenyl	50.00	103	80 - 120	8.613	8.613	0.0000	+/-0.500	
2-Fluorophenol	100.0	114	80 - 120	3.986	3.986	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	106	80 - 120	6.294	6.294	0.0000	+/-0.500	
Phenol-d6	100.0	109	80 - 120	5.135	5.135	0.0000	+/-0.500	
Terphenyl-d14	50.00	124	80 - 120	13.208	13.208	0.0000	+/-0.500	*
2,4,6-Tribromophenol	100.0	115	80 - 120	10.434	10.434	0.0000	+/-0.500	
Blank (2K07006-BLK1) ug/L				Lab File ID: K07006B1.D		Analyzed: 11/13/12 19:48		
2-Fluorobiphenyl	50.00	82.0	50 - 110	8.605	8.613	-0.0080	+/-0.500	
2-Fluorophenol	100.0	39.3	20 - 110	3.989	3.986	0.0030	+/-0.500	
Nitrobenzene-d5	50.00	82.1	40 - 110	6.297	6.294	0.0030	+/-0.500	
Phenol-d6	100.0	22.6	0 - 110	5.128	5.135	-0.0070	+/-0.500	
Terphenyl-d14	50.00	101	50 - 135	13.201	13.208	-0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	87.9	40 - 125	10.427	10.434	-0.0070	+/-0.500	
LCS (2K07006-BS1) ug/L				Lab File ID: K07006L1.D		Analyzed: 11/13/12 20:15		
2-Fluorobiphenyl	50.00	85.2	50 - 110	8.606	8.613	-0.0070	+/-0.500	
2-Fluorophenol	100.0	46.4	20 - 110	3.99	3.986	0.0040	+/-0.500	
Nitrobenzene-d5	50.00	84.5	40 - 110	6.298	6.294	0.0040	+/-0.500	
Phenol-d6	100.0	26.5	0 - 110	5.128	5.135	-0.0070	+/-0.500	
Terphenyl-d14	50.00	102	50 - 135	13.201	13.208	-0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	97.9	40 - 125	10.427	10.434	-0.0070	+/-0.500	
GW0802 (1211036-07) ug/L				Lab File ID: 1103607.D		Analyzed: 11/13/12 23:01		
2-Fluorobiphenyl	46.30	85.2	50 - 110	8.614	8.613	0.0010	+/-0.500	
2-Fluorophenol	92.59	26.7	20 - 110	3.987	3.986	0.0010	+/-0.500	
Nitrobenzene-d5	46.30	84.7	40 - 110	6.295	6.294	0.0010	+/-0.500	
Phenol-d6	92.59	19.2	0 - 110	5.136	5.135	0.0010	+/-0.500	
Terphenyl-d14	46.30	98.7	50 - 135	13.209	13.208	0.0010	+/-0.500	
2,4,6-Tribromophenol	92.59	64.1	40 - 125	10.425	10.434	-0.0090	+/-0.500	
GW0803 (1211036-09) ug/L				Lab File ID: 1103609.D		Analyzed: 11/13/12 23:28		
2-Fluorobiphenyl	46.30	62.2	50 - 110	8.614	8.613	0.0010	+/-0.500	
2-Fluorophenol	92.59	29.9	20 - 110	3.987	3.986	0.0010	+/-0.500	
Nitrobenzene-d5	46.30	62.9	40 - 110	6.295	6.294	0.0010	+/-0.500	
Phenol-d6	92.59	17.9	0 - 110	5.136	5.135	0.0010	+/-0.500	
Terphenyl-d14	46.30	79.0	50 - 135	13.209	13.208	0.0010	+/-0.500	
2,4,6-Tribromophenol	92.59	67.4	40 - 125	10.425	10.434	-0.0090	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31903	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0804 (1211036-11) ug/L				Lab File ID: 1103611.D		Analyzed: 11/13/12 23:55		
2-Fluorobiphenyl	46.30	85.8	50 - 110	8.605	8.613	-0.0080	+/-0.500	
2-Fluorophenol	92.59	40.1	20 - 110	3.989	3.986	0.0030	+/-0.500	
Nitrobenzene-d5	46.30	85.4	40 - 110	6.297	6.294	0.0030	+/-0.500	
Phenol-d6	92.59	22.5	0 - 110	5.128	5.135	-0.0070	+/-0.500	
Terphenyl-d14	46.30	103	50 - 135	13.211	13.208	0.0030	+/-0.500	
2,4,6-Tribromophenol	92.59	97.1	40 - 125	10.427	10.434	-0.0070	+/-0.500	
GW0812 (1211036-13) ug/L				Lab File ID: 1103613D.D		Analyzed: 11/14/12 00:23		
2-Fluorobiphenyl	50.00		50 - 110	8.607	8.613	-0.0060	+/-0.500	*
2-Fluorophenol	100.0		20 - 110	3.991	3.986	0.0050	+/-0.500	*
Nitrobenzene-d5	50.00		40 - 110	6.299	6.294	0.0050	+/-0.500	*
Phenol-d6	100.0		0 - 110	5.212	5.135	0.0770	+/-0.500	
Terphenyl-d14	50.00		50 - 135	13.202	13.208	-0.0060	+/-0.500	*
2,4,6-Tribromophenol	100.0		40 - 125	10.428	10.434	-0.0060	+/-0.500	*
GW0813 (1211036-15) ug/L				Lab File ID: 1103615.D		Analyzed: 11/14/12 00:51		
2-Fluorobiphenyl	50.00	87.5	50 - 110	8.605	8.613	-0.0080	+/-0.500	
2-Fluorophenol	100.0	44.2	20 - 110	3.989	3.986	0.0030	+/-0.500	
Nitrobenzene-d5	50.00	86.1	40 - 110	6.297	6.294	0.0030	+/-0.500	
Phenol-d6	100.0	27.1	0 - 110	5.128	5.135	-0.0070	+/-0.500	
Terphenyl-d14	50.00	103	50 - 135	13.201	13.208	-0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	94.0	40 - 125	10.427	10.434	-0.0070	+/-0.500	
GW0814 (1211036-17) ug/L				Lab File ID: 1103617.D		Analyzed: 11/14/12 01:18		
2-Fluorobiphenyl	50.00	74.7	50 - 110	8.614	8.613	0.0010	+/-0.500	
2-Fluorophenol	100.0	38.0	20 - 110	3.987	3.986	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	74.6	40 - 110	6.296	6.294	0.0020	+/-0.500	
Phenol-d6	100.0	23.1	0 - 110	5.126	5.135	-0.0090	+/-0.500	
Terphenyl-d14	50.00	104	50 - 135	13.209	13.208	0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	91.5	40 - 125	10.425	10.434	-0.0090	+/-0.500	
GW0832 (1211036-19) ug/L				Lab File ID: 1103619.D		Analyzed: 11/14/12 01:46		
2-Fluorobiphenyl	50.00	73.4	50 - 110	8.606	8.613	-0.0070	+/-0.500	
2-Fluorophenol	100.0	35.6	20 - 110	3.99	3.986	0.0040	+/-0.500	
Nitrobenzene-d5	50.00	75.8	40 - 110	6.298	6.294	0.0040	+/-0.500	
Phenol-d6	100.0	21.9	0 - 110	5.129	5.135	-0.0060	+/-0.500	
Terphenyl-d14	50.00	91.8	50 - 135	13.202	13.208	-0.0060	+/-0.500	
2,4,6-Tribromophenol	100.0	77.3	40 - 125	10.428	10.434	-0.0060	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31903	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Matrix Spike (2K07006-MS1) ug/L				Lab File ID: 1103615M.D		Analyzed: 11/14/12 02:13		
2-Fluorobiphenyl	50.00	79.3	50 - 110	8.616	8.613	0.0030	+/-0.500	
2-Fluorophenol	100.0	44.5	20 - 110	3.989	3.986	0.0030	+/-0.500	
Nitrobenzene-d5	50.00	79.4	40 - 110	6.297	6.294	0.0030	+/-0.500	
Phenol-d6	100.0	25.4	0 - 110	5.128	5.135	-0.0070	+/-0.500	
Terphenyl-d14	50.00	93.7	50 - 135	13.211	13.208	0.0030	+/-0.500	
2,4,6-Tribromophenol	100.0	88.2	40 - 125	10.427	10.434	-0.0070	+/-0.500	
Matrix Spike Dup (2K07006-MSD1) ug/L				Lab File ID: 1103615S.D		Analyzed: 11/14/12 02:41		
2-Fluorobiphenyl	50.00	42.3	50 - 110	8.606	8.613	-0.0070	+/-0.500	*
2-Fluorophenol	100.0	17.8	20 - 110	3.99	3.986	0.0040	+/-0.500	*
Nitrobenzene-d5	50.00	41.0	40 - 110	6.298	6.294	0.0040	+/-0.500	
Phenol-d6	100.0	13.5	0 - 110	5.128	5.135	-0.0070	+/-0.500	
Terphenyl-d14	50.00	61.8	50 - 135	13.202	13.208	-0.0060	+/-0.500	
2,4,6-Tribromophenol	100.0	36.6	40 - 125	10.428	10.434	-0.0060	+/-0.500	*
Matrix Spike (2K07006-MS2) ug/L				Lab File ID: 1103619M.D		Analyzed: 11/14/12 03:08		
2-Fluorobiphenyl	50.00	78.2	50 - 110	8.615	8.613	0.0020	+/-0.500	
2-Fluorophenol	100.0	43.6	20 - 110	3.988	3.986	0.0020	+/-0.500	
Nitrobenzene-d5	50.00	77.2	40 - 110	6.296	6.294	0.0020	+/-0.500	
Phenol-d6	100.0	25.1	0 - 110	5.127	5.135	-0.0080	+/-0.500	
Terphenyl-d14	50.00	92.1	50 - 135	13.21	13.208	0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	87.2	40 - 125	10.426	10.434	-0.0080	+/-0.500	
Matrix Spike Dup (2K07006-MSD2) ug/L				Lab File ID: 1103619S.D		Analyzed: 11/14/12 03:36		
2-Fluorobiphenyl	50.00	88.0	50 - 110	8.613	8.613	0.0000	+/-0.500	
2-Fluorophenol	100.0	46.9	20 - 110	3.987	3.986	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	87.6	40 - 110	6.295	6.294	0.0010	+/-0.500	
Phenol-d6	100.0	28.3	0 - 110	5.136	5.135	0.0010	+/-0.500	
Terphenyl-d14	50.00	102	50 - 135	13.209	13.208	0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	94.6	40 - 125	10.435	10.434	0.0010	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K32014-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 11/14/12 12:11		
2-Fluorobiphenyl	50.00	102	80 - 120	8.614	8.614	0.0000	+/-0.500	
2-Fluorophenol	100.0	114	80 - 120	3.987	3.987	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	104	80 - 120	6.295	6.295	0.0000	+/-0.500	
Phenol-d6	100.0	109	80 - 120	5.136	5.136	0.0000	+/-0.500	
Terphenyl-d14	50.00	124	80 - 120	13.209	13.209	0.0000	+/-0.500	*
2,4,6-Tribromophenol	100.0	111	80 - 120	10.425	10.425	0.0000	+/-0.500	
Blank (2K08004-BLK1) ug/L				Lab File ID: K08004B1.D		Analyzed: 11/14/12 13:07		
2-Fluorobiphenyl	50.00	91.7	50 - 110	8.613	8.614	-0.0010	+/-0.500	
2-Fluorophenol	100.0	44.6	20 - 110	3.986	3.987	-0.0010	+/-0.500	
Nitrobenzene-d5	50.00	93.1	40 - 110	6.295	6.295	0.0000	+/-0.500	
Phenol-d6	100.0	25.2	0 - 110	5.125	5.136	-0.0110	+/-0.500	
Terphenyl-d14	50.00	108	50 - 135	13.208	13.209	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	101	40 - 125	10.424	10.425	-0.0010	+/-0.500	
LCS (2K08004-BS1) ug/L				Lab File ID: K08004L1.D		Analyzed: 11/14/12 13:34		
2-Fluorobiphenyl	50.00	60.8	50 - 110	8.606	8.614	-0.0080	+/-0.500	
2-Fluorophenol	100.0	37.7	20 - 110	3.99	3.987	0.0030	+/-0.500	
Nitrobenzene-d5	50.00	61.3	40 - 110	6.298	6.295	0.0030	+/-0.500	
Phenol-d6	100.0	21.7	0 - 110	5.129	5.136	-0.0070	+/-0.500	
Terphenyl-d14	50.00	76.0	50 - 135	13.202	13.209	-0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	66.9	40 - 125	10.428	10.425	0.0030	+/-0.500	
GW0755 (1211036-01) ug/L				Lab File ID: 1103601.D		Analyzed: 11/14/12 14:57		
2-Fluorobiphenyl	49.02	82.6	50 - 110	8.605	8.614	-0.0090	+/-0.500	
2-Fluorophenol	98.04	29.2	20 - 110	3.989	3.987	0.0020	+/-0.500	
Nitrobenzene-d5	49.02	86.1	40 - 110	6.297	6.295	0.0020	+/-0.500	
Phenol-d6	98.04	21.5	0 - 110	5.127	5.136	-0.0090	+/-0.500	
Terphenyl-d14	49.02	97.3	50 - 135	13.2	13.209	-0.0090	+/-0.500	
2,4,6-Tribromophenol	98.04	56.7	40 - 125	10.427	10.425	0.0020	+/-0.500	
GW0762 (1211036-03) ug/L				Lab File ID: 1103603D.D		Analyzed: 11/14/12 15:25		
2-Fluorobiphenyl	49.02		50 - 110	8.604	8.614	-0.0100	+/-0.500	*
2-Fluorophenol	98.04		20 - 110	3.988	3.987	0.0010	+/-0.500	*
Nitrobenzene-d5	49.02		40 - 110	6.296	6.295	0.0010	+/-0.500	*
Phenol-d6	98.04		0 - 110	5.126	5.136	-0.0100	+/-0.500	
Terphenyl-d14	49.02		50 - 135	13.199	13.209	-0.0100	+/-0.500	*
2,4,6-Tribromophenol	98.04		40 - 125	10.426	10.425	0.0010	+/-0.500	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0763 (1211036-05) ug/L				Lab File ID: 1103605.D		Analyzed: 11/14/12 15:52		
2-Fluorobiphenyl	48.08	83.2	50 - 110	8.605	8.614	-0.0090	+/-0.500	
2-Fluorophenol	96.15	37.5	20 - 110	3.989	3.987	0.0020	+/-0.500	
Nitrobenzene-d5	48.08	82.0	40 - 110	6.297	6.295	0.0020	+/-0.500	
Phenol-d6	96.15	21.8	0 - 110	5.128	5.136	-0.0080	+/-0.500	
Terphenyl-d14	48.08	97.4	50 - 135	13.201	13.209	-0.0080	+/-0.500	
2,4,6-Tribromophenol	96.15	84.0	40 - 125	10.427	10.425	0.0020	+/-0.500	
GW0833 (1211036-21) ug/L				Lab File ID: 1103621.D		Analyzed: 11/14/12 16:20		
2-Fluorobiphenyl	50.00	80.6	50 - 110	8.605	8.614	-0.0090	+/-0.500	
2-Fluorophenol	100.0	40.9	20 - 110	3.989	3.987	0.0020	+/-0.500	
Nitrobenzene-d5	50.00	80.2	40 - 110	6.287	6.295	-0.0080	+/-0.500	
Phenol-d6	100.0	24.0	0 - 110	5.128	5.136	-0.0080	+/-0.500	
Terphenyl-d14	50.00	96.9	50 - 135	13.201	13.209	-0.0080	+/-0.500	
2,4,6-Tribromophenol	100.0	84.2	40 - 125	10.427	10.425	0.0020	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32413	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K32413-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 11/16/12 16:35		
2-Fluorobiphenyl	50.00	99.6	80 - 120	8.612	8.612	0.0000	+/-0.500	
2-Fluorophenol	100.0	110	80 - 120	3.986	3.986	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	103	80 - 120	6.294	6.294	0.0000	+/-0.500	
Phenol-d6	100.0	105	80 - 120	5.134	5.134	0.0000	+/-0.500	
Terphenyl-d14	50.00	119	80 - 120	13.208	13.208	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	108	80 - 120	10.423	10.423	0.0000	+/-0.500	
Blank (2K02001-BLK1) ug/L				Lab File ID: K02001B1.D		Analyzed: 11/16/12 17:31		
2-Fluorobiphenyl	50.00	63.5	50 - 110	8.611	8.612	-0.0010	+/-0.500	
2-Fluorophenol	100.0	33.9	20 - 110	3.984	3.986	-0.0020	+/-0.500	
Nitrobenzene-d5	50.00	63.0	40 - 110	6.293	6.294	-0.0010	+/-0.500	
Phenol-d6	100.0	19.1	0 - 110	5.123	5.134	-0.0110	+/-0.500	
Terphenyl-d14	50.00	73.0	50 - 135	13.206	13.208	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	69.9	40 - 125	10.422	10.423	-0.0010	+/-0.500	
LCS (2K02001-BS1) ug/L				Lab File ID: K02001L1.D		Analyzed: 11/16/12 17:58		
2-Fluorobiphenyl	50.00	74.6	50 - 110	8.612	8.612	0.0000	+/-0.500	
2-Fluorophenol	100.0	30.8	20 - 110	3.985	3.986	-0.0010	+/-0.500	
Nitrobenzene-d5	50.00	75.7	40 - 110	6.293	6.294	-0.0010	+/-0.500	
Phenol-d6	100.0	21.0	0 - 110	5.124	5.134	-0.0100	+/-0.500	
Terphenyl-d14	50.00	85.4	50 - 135	13.207	13.208	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	62.7	40 - 125	10.423	10.423	0.0000	+/-0.500	
GW0848 (1210292-07) ug/L				Lab File ID: 1029207.D		Analyzed: 11/16/12 19:21		
2-Fluorobiphenyl	46.30	44.3	50 - 110	8.611	8.612	-0.0010	+/-0.500	*
2-Fluorophenol	92.59	28.6	20 - 110	3.984	3.986	-0.0020	+/-0.500	
Nitrobenzene-d5	46.30	42.9	40 - 110	6.292	6.294	-0.0020	+/-0.500	
Phenol-d6	92.59	20.5	0 - 110	5.133	5.134	-0.0010	+/-0.500	
Terphenyl-d14	46.30	53.2	50 - 135	13.206	13.208	-0.0020	+/-0.500	
2,4,6-Tribromophenol	92.59	41.7	40 - 125	10.422	10.423	-0.0010	+/-0.500	
GW0849 (1210292-09) ug/L				Lab File ID: 1029209.D		Analyzed: 11/16/12 19:48		
2-Fluorobiphenyl	50.00	86.1	50 - 110	8.612	8.612	0.0000	+/-0.500	
2-Fluorophenol	100.0	19.4	20 - 110	3.996	3.986	0.0100	+/-0.500	*
Nitrobenzene-d5	50.00	87.5	40 - 110	6.293	6.294	-0.0010	+/-0.500	
Phenol-d6	100.0	18.4	0 - 110	5.134	5.134	0.0000	+/-0.500	
Terphenyl-d14	50.00	99.2	50 - 135	13.207	13.208	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	45.5	40 - 125	10.423	10.423	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32413	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Matrix Spike (2K02001-MS1) ug/L				Lab File ID: 1029209M.D		Analyzed: 11/16/12 20:16		
2-Fluorobiphenyl	50.00	82.3	50 - 110	8.61	8.612	-0.0020	+/-0.500	
2-Fluorophenol	100.0	23.6	20 - 110	3.994	3.986	0.0080	+/-0.500	
Nitrobenzene-d5	50.00	81.4	40 - 110	6.292	6.294	-0.0020	+/-0.500	
Phenol-d6	100.0	19.0	0 - 110	5.133	5.134	-0.0010	+/-0.500	
Terphenyl-d14	50.00	96.9	50 - 135	13.206	13.208	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	57.0	40 - 125	10.432	10.423	0.0090	+/-0.500	
Matrix Spike Dup (2K02001-MSD1) ug/L				Lab File ID: 1029209S.D		Analyzed: 11/16/12 20:44		
2-Fluorobiphenyl	50.00	88.9	50 - 110	8.604	8.612	-0.0080	+/-0.500	
2-Fluorophenol	100.0	40.0	20 - 110	3.988	3.986	0.0020	+/-0.500	
Nitrobenzene-d5	50.00	88.2	40 - 110	6.296	6.294	0.0020	+/-0.500	
Phenol-d6	100.0	25.2	0 - 110	5.137	5.134	0.0030	+/-0.500	
Terphenyl-d14	50.00	101	50 - 135	13.2	13.208	-0.0080	+/-0.500	
2,4,6-Tribromophenol	100.0	88.5	40 - 125	10.426	10.423	0.0030	+/-0.500	
GW0850 (1210292-11) ug/L				Lab File ID: 1029211.D		Analyzed: 11/16/12 21:12		
2-Fluorobiphenyl	50.00	76.3	50 - 110	8.612	8.612	0.0000	+/-0.500	
2-Fluorophenol	100.0	36.7	20 - 110	3.985	3.986	-0.0010	+/-0.500	
Nitrobenzene-d5	50.00	75.3	40 - 110	6.293	6.294	-0.0010	+/-0.500	
Phenol-d6	100.0	22.1	0 - 110	5.124	5.134	-0.0100	+/-0.500	
Terphenyl-d14	50.00	104	50 - 135	13.207	13.208	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	81.1	40 - 125	10.423	10.423	0.0000	+/-0.500	
Blank (2K05004-BLK1) ug/L				Lab File ID: K05004B1.D		Analyzed: 11/16/12 23:02		
2-Fluorobiphenyl	50.00	89.9	50 - 110	8.612	8.612	0.0000	+/-0.500	
2-Fluorophenol	100.0	45.1	20 - 110	3.985	3.986	-0.0010	+/-0.500	
Nitrobenzene-d5	50.00	91.1	40 - 110	6.293	6.294	-0.0010	+/-0.500	
Phenol-d6	100.0	26.9	0 - 110	5.124	5.134	-0.0100	+/-0.500	
Terphenyl-d14	50.00	109	50 - 135	13.207	13.208	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	98.8	40 - 125	10.423	10.423	0.0000	+/-0.500	
LCS (2K05004-BS1) ug/L				Lab File ID: K05004L1.D		Analyzed: 11/16/12 23:29		
2-Fluorobiphenyl	50.00	92.0	50 - 110	8.603	8.612	-0.0090	+/-0.500	
2-Fluorophenol	100.0	51.3	20 - 110	3.987	3.986	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	94.3	40 - 110	6.295	6.294	0.0010	+/-0.500	
Phenol-d6	100.0	30.3	0 - 110	5.126	5.134	-0.0080	+/-0.500	
Terphenyl-d14	50.00	106	50 - 135	13.199	13.208	-0.0090	+/-0.500	
2,4,6-Tribromophenol	100.0	103	40 - 125	10.425	10.423	0.0020	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32413	Instrument:	MS-BNA3
		Calibration:	2261001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
LCS Dup (2K05004-BSD1) ug/L				Lab File ID: K05004L2.D		Analyzed: 11/16/12 23:57		
2-Fluorobiphenyl	50.00	93.5	50 - 110	8.614	8.612	0.0020	+/-0.500	
2-Fluorophenol	100.0	51.6	20 - 110	3.987	3.986	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	95.7	40 - 110	6.295	6.294	0.0010	+/-0.500	
Phenol-d6	100.0	29.7	0 - 110	5.126	5.134	-0.0080	+/-0.500	
Terphenyl-d14	50.00	109	50 - 135	13.199	13.208	-0.0090	+/-0.500	
2,4,6-Tribromophenol	100.0	105	40 - 125	10.425	10.423	0.0020	+/-0.500	
GW0786 (1210292-01) ug/L				Lab File ID: 1029201.D		Analyzed: 11/17/12 00:25		
2-Fluorobiphenyl	50.00	84.9	50 - 110	8.603	8.612	-0.0090	+/-0.500	
2-Fluorophenol	100.0	44.9	20 - 110	3.986	3.986	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	85.9	40 - 110	6.295	6.294	0.0010	+/-0.500	
Phenol-d6	100.0	27.2	0 - 110	5.125	5.134	-0.0090	+/-0.500	
Terphenyl-d14	50.00	105	50 - 135	13.198	13.208	-0.0100	+/-0.500	
2,4,6-Tribromophenol	100.0	98.8	40 - 125	10.424	10.423	0.0010	+/-0.500	
GW0787 (1210292-03) ug/L				Lab File ID: 1029203.D		Analyzed: 11/17/12 00:53		
2-Fluorobiphenyl	50.00	82.1	50 - 110	8.611	8.612	-0.0010	+/-0.500	
2-Fluorophenol	100.0	45.1	20 - 110	3.984	3.986	-0.0020	+/-0.500	
Nitrobenzene-d5	50.00	82.7	40 - 110	6.293	6.294	-0.0010	+/-0.500	
Phenol-d6	100.0	26.0	0 - 110	5.123	5.134	-0.0110	+/-0.500	
Terphenyl-d14	50.00	104	50 - 135	13.206	13.208	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	96.8	40 - 125	10.422	10.423	-0.0010	+/-0.500	
GW0788 (1210292-05) ug/L				Lab File ID: 1029205.D		Analyzed: 11/17/12 01:20		
2-Fluorobiphenyl	50.00	78.8	50 - 110	8.604	8.612	-0.0080	+/-0.500	
2-Fluorophenol	100.0	40.3	20 - 110	3.988	3.986	0.0020	+/-0.500	
Nitrobenzene-d5	50.00	78.8	40 - 110	6.296	6.294	0.0020	+/-0.500	
Phenol-d6	100.0	24.2	0 - 110	5.126	5.134	-0.0080	+/-0.500	
Terphenyl-d14	50.00	107	50 - 135	13.2	13.208	-0.0080	+/-0.500	
2,4,6-Tribromophenol	100.0	96.5	40 - 125	10.426	10.423	0.0030	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K02001	Laboratory ID:	2K02001-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	35.72	26.91	75.3	45 - 110
Acenaphthylene	35.72	28.97	81.1	50 - 105
Acetophenone	35.72	33.03	92.5	45 - 130
Anthracene	35.72	31.34	87.8	55 - 110
Atrazine	35.72	33.50	93.8	40 - 150
Benzaldehyde	35.72	35.63	99.8	40 - 125
Benzidine	35.72	100 U	0	0 - 110
Benzo(a)anthracene	35.72	31.21	87.4	55 - 110
Benzo(a)pyrene	35.72	31.46	88.1	55 - 110
Benzo(b)fluoranthene	35.72	30.95	86.6	45 - 120
Benzo(g,h,i)perylene	35.72	31.98	89.6	40 - 125
Benzoic acid	71.45	100 U	0	0 - 125
Benzo(k)fluoranthene	35.72	31.32	87.7	45 - 125
1,1-Biphenyl	35.72	33.64	94.2	45 - 135
4-Bromophenyl-phenylether	35.72	31.58	88.4	50 - 115
Butylbenzylphthalate	35.72	34.61	96.9	45 - 115
Caprolactam	35.72	7.418	20.8	5 - 110
Carbazole	35.72	33.47	93.7	50 - 115
4-Chloro-3-methylphenol	71.45	52.04	72.8	45 - 110
4-Chloroaniline	35.72	28.01	78.4	15 - 110
Bis(2-chloroethoxy)methane	35.72	31.80	89.0	45 - 105
Bis(2-chloroethyl)ether	35.72	31.06	87.0	35 - 110
2,2'-Oxybis-1-chloropropane	35.72	31.62	88.5	25 - 130
2-Chloronaphthalene	35.72	26.62	74.5	50 - 105
2-Chlorophenol	71.45	39.76	55.7	35 - 105
4-Chlorophenyl phenyl ether	35.72	27.95	78.2	50 - 110
Chrysene	35.72	31.88	89.3	55 - 110
Dibenz(a,h)anthracene	35.72	32.20	90.2	40 - 125
Dibenzofuran	35.72	29.32	82.1	55 - 105
Di-n-butylphthalate	35.72	33.30	93.2	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K02001	Laboratory ID:	2K02001-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	35.72	33.15	92.8	20 - 110
2,4-Dichlorophenol	71.45	42.68	59.7	50 - 105
Diethylphthalate	35.72	28.60	80.1	40 - 120
2,4-Dimethylphenol	71.45	49.46	69.2	30 - 110
Dimethyl phthalate	35.72	30.08	84.2	25 - 125
4,6-Dinitro-2-methylphenol	71.45	45.40	63.5	40 - 130
2,4-Dinitrophenol	71.45	34.70	48.6	15 - 140
2,4-Dinitrotoluene	35.72	30.75	86.1	50 - 120
2,6-Dinitrotoluene	35.72	30.65	85.8	50 - 115
Di-n-octylphthalate	35.72	36.37	102	35 - 135
1,2-Diphenylhydrazine	35.72	31.70	88.8	55 - 115
Bis(2-ethylhexyl)phthalate	35.72	35.51	99.4	40 - 125
Fluoranthene	35.72	31.64	88.6	55 - 115
Fluorene	35.72	28.16	78.8	50 - 110
Hexachlorobenzene	35.72	29.89	83.7	50 - 110
Hexachlorobutadiene	35.72	25.75	72.1	25 - 105
Hexachlorocyclopentadiene	35.72	19.53	54.7	0 - 120
Hexachloroethane	35.72	23.25	65.1	30 - 100
Indeno(1,2,3-cd)pyrene	35.72	31.12	87.1	45 - 125
Isophorone	35.72	28.10	78.7	50 - 110
1-Methylnaphthalene	35.72	27.43	76.8	35 - 115
2-Methylnaphthalene	35.72	27.04	75.7	45 - 105
2-Methylphenol	71.45	43.99	61.6	40 - 110
3-Methylphenol/4-Methylphenol	71.45	40.01	56.0	30 - 110
Naphthalene	35.72	28.03	78.5	40 - 100
4-Nitroaniline	35.72	32.57	91.2	35 - 120
3-Nitroaniline	35.72	30.36	85.0	20 - 125
2-Nitroaniline	35.72	32.37	90.6	50 - 115
Nitrobenzene	35.72	28.66	80.2	45 - 110
4-Nitrophenol	71.45	12.61	17.7	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K02001	Laboratory ID:	2K02001-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	71.45	46.70	65.4	40 - 115
N-Nitrosodiphenylamine	35.72	27.50	77.0	50 - 110
N-Nitroso-di-n-propylamine	35.72	29.88	83.7	35 - 130
Pentachlorophenol	71.45	39.66	55.5	40 - 115
Phenanthrene	35.72	31.14	87.2	50 - 115
Phenol	71.45	16.04	22.5	0 - 115
Pyrene	35.72	33.31	93.3	50 - 130
2,4,6-Trichlorophenol	71.45	38.93	54.5	50 - 115
2,4,5-Trichlorophenol	71.45	43.04	60.2	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K05004	Laboratory ID:	2K05004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	35.72	33.84	94.8	45 - 110
Acenaphthylene	35.72	36.26	102	50 - 105
Acetophenone	35.72	34.26	95.9	45 - 130
Anthracene	**35.72**	**40.16**	**112**	**55 - 110**
Atrazine	35.72	33.84	94.7	40 - 150
Benzaldehyde	35.72	38.45	108	40 - 125
Benzidine	35.72	100 U	0	0 - 110
Benzo(a)anthracene	**35.72**	**40.49**	**113**	**55 - 110**
Benzo(a)pyrene	**35.72**	**40.13**	**112**	**55 - 110**
Benzo(b)fluoranthene	35.72	39.66	111	45 - 120
Benzo(g,h,i)perylene	35.72	41.58	116	40 - 125
Benzoic acid	71.45	100 U	0	0 - 125
Benzo(k)fluoranthene	35.72	38.79	109	45 - 125
1,1-Biphenyl	35.72	34.05	95.3	45 - 135
4-Bromophenyl-phenylether	35.72	40.15	112	50 - 115
Butylbenzylphthalate	**35.72**	**45.24**	**127**	**45 - 115**
Caprolactam	35.72	7.055	19.8	5 - 110
Carbazole	**35.72**	**42.53**	**119**	**50 - 115**
4-Chloro-3-methylphenol	71.45	69.01	96.6	45 - 110
4-Chloroaniline	35.72	32.07	89.8	15 - 110
Bis(2-chloroethoxy)methane	**35.72**	**39.61**	**111**	**45 - 105**
Bis(2-chloroethyl)ether	35.72	38.66	108	35 - 110
2,2'-Oxybis-1-chloropropane	35.72	37.91	106	25 - 130
2-Chloronaphthalene	35.72	33.53	93.9	50 - 105
2-Chlorophenol	71.45	63.72	89.2	35 - 105
4-Chlorophenyl phenyl ether	35.72	35.46	99.3	50 - 110
Chrysene	**35.72**	**40.86**	**114**	**55 - 110**
Dibenz(a,h)anthracene	35.72	41.99	118	40 - 125
Dibenzofuran	35.72	37.23	104	55 - 105
Di-n-butylphthalate	**35.72**	**42.59**	**119**	**55 - 115**

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K05004	Laboratory ID:	2K05004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	**35.72**	**40.38**	**113**	**20 - 110**
2,4-Dichlorophenol	71.45	70.67	98.9	50 - 105
Diethylphthalate	35.72	36.00	101	40 - 120
2,4-Dimethylphenol	71.45	59.15	82.8	30 - 110
Dimethyl phthalate	35.72	37.77	106	25 - 125
4,6-Dinitro-2-methylphenol	71.45	56.16	78.6	40 - 130
2,4-Dinitrophenol	71.45	23.79	33.3	15 - 140
2,4-Dinitrotoluene	35.72	38.50	108	50 - 120
2,6-Dinitrotoluene	35.72	39.49	111	50 - 115
Di-n-octylphthalate	35.72	47.08	132	35 - 135
1,2-Diphenylhydrazine	35.72	40.29	113	55 - 115
Bis(2-ethylhexyl)phthalate	**35.72**	**45.22**	**127**	**40 - 125**
Fluoranthene	**35.72**	**41.25**	**116**	**55 - 115**
Fluorene	35.72	35.93	101	50 - 110
Hexachlorobenzene	35.72	38.66	108	50 - 110
Hexachlorobutadiene	35.72	30.92	86.6	25 - 105
Hexachlorocyclopentadiene	35.72	22.73	63.6	0 - 120
Hexachloroethane	35.72	28.25	79.1	30 - 100
Indeno(1,2,3-cd)pyrene	35.72	40.26	113	45 - 125
Isophorone	35.72	35.14	98.4	50 - 110
1-Methylnaphthalene	35.72	33.33	93.3	35 - 115
2-Methylnaphthalene	35.72	32.65	91.4	45 - 105
2-Methylphenol	71.45	55.29	77.4	40 - 110
3-Methylphenol/4-Methylphenol	71.45	49.04	68.6	30 - 110
Naphthalene	35.72	34.58	96.8	40 - 100
4-Nitroaniline	35.72	42.46	119	35 - 120
3-Nitroaniline	35.72	38.12	107	20 - 125
2-Nitroaniline	35.72	40.37	113	50 - 115
Nitrobenzene	35.72	35.30	98.8	45 - 110
4-Nitrophenol	71.45	13.40	18.8	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K05004	Laboratory ID:	2K05004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	**71.45**	**82.67**	**116**	**40 - 115**
N-Nitrosodiphenylamine	35.72	35.71	100	50 - 110
N-Nitroso-di-n-propylamine	35.72	37.25	104	35 - 130
Pentachlorophenol	71.45	65.56	91.8	40 - 115
Phenanthrene	35.72	40.15	112	50 - 115
Phenol	71.45	22.83	31.9	0 - 115
Pyrene	35.72	41.59	116	50 - 130
2,4,6-Trichlorophenol	71.45	66.49	93.1	50 - 115
2,4,5-Trichlorophenol	71.45	75.72	106	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	35.72	34.49	96.6	1.90	30	45 - 110
Acenaphthylene	35.72	37.12	104	2.35	30	50 - 105
Acetophenone	35.72	34.66	97.0	1.14	30	45 - 130
Anthracene	**35.72**	**40.17**	**112 ***	**0.0301**	**30**	**55 - 110**
Atrazine	35.72	34.48	96.6	1.89	30	40 - 150
Benzaldehyde	35.72	39.59	111	2.94	30	40 - 125
Benzidine	35.72	100 U	0		30	0 - 110
Benzo(a)anthracene	**35.72**	**40.96**	**115 ***	**1.16**	**30**	**55 - 110**
Benzo(a)pyrene	**35.72**	**40.08**	**112 ***	**0.116**	**30**	**55 - 110**
Benzo(b)fluoranthene	35.72	39.98	112	0.814	30	45 - 120
Benzo(g,h,i)perylene	35.72	41.10	115	1.18	30	40 - 125
Benzoic acid	71.45	12.77	17.9	102 *	30	0 - 125
Benzo(k)fluoranthene	35.72	40.06	112	3.24	30	45 - 125
1,1-Biphenyl	35.72	34.29	96.0	0.714	30	45 - 135
4-Bromophenyl-phenylether	35.72	39.99	112	0.382	30	50 - 115
Butylbenzylphthalate	**35.72**	**46.78**	**131 ***	**3.34**	**30**	**45 - 115**
Caprolactam	35.72	7.594	21.3	7.35	30	5 - 110
Carbazole	**35.72**	**41.93**	**117 ***	**1.43**	**30**	**50 - 115**

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K05004	Laboratory ID:	2K05004-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Chloro-3-methylphenol	71.45	68.95	96.5	0.0892	30	45 - 110
4-Chloroaniline	35.72	33.13	92.8	3.25	30	15 - 110
Bis(2-chloroethoxy)methane	**35.72**	**40.53**	**113 ***	**2.29**	**30**	**45 - 105**
Bis(2-chloroethyl)ether	35.72	39.25	110	1.52	30	35 - 110
2,2'-Oxybis-1-chloropropane	35.72	38.77	109	2.23	30	25 - 130
2-Chloronaphthalene	35.72	34.39	96.3	2.54	30	50 - 105
2-Chlorophenol	71.45	66.07	92.5	3.62	30	35 - 105
4-Chlorophenyl phenyl ether	35.72	36.27	102	2.27	30	50 - 110
Chrysene	**35.72**	**41.30**	**116 ***	**1.08**	**30**	**55 - 110**
Dibenz(a,h)anthracene	35.72	42.33	119	0.823	30	40 - 125
Dibenzofuran	**35.72**	**37.83**	**106 ***	**1.60**	**30**	**55 - 105**
Di-n-butylphthalate	**35.72**	**42.25**	**118 ***	**0.798**	**30**	**55 - 115**
3,3'-Dichlorobenzidine	**35.72**	**41.65**	**117 ***	**3.11**	**30**	**20 - 110**
2,4-Dichlorophenol	71.45	72.07	101	1.97	30	50 - 105
Diethylphthalate	35.72	36.60	102	1.65	30	40 - 120
2,4-Dimethylphenol	71.45	63.87	89.4	7.68	30	30 - 110
Dimethyl phthalate	35.72	38.81	109	2.71	30	25 - 125
4,6-Dinitro-2-methylphenol	71.45	86.75	121	42.8 *	30	40 - 130
2,4-Dinitrophenol	71.45	85.43	120	113 *	30	15 - 140
2,4-Dinitrotoluene	35.72	40.60	114	5.29	30	50 - 120
2,6-Dinitrotoluene	35.72	39.84	112	0.877	30	50 - 115
Di-n-octylphthalate	35.72	46.94	131	0.290	30	35 - 135
1,2-Diphenylhydrazine	35.72	39.88	112	1.03	30	55 - 115
Bis(2-ethylhexyl)phthalate	**35.72**	**46.06**	**129 ***	**1.85**	**30**	**40 - 125**
Fluoranthene	35.72	40.86	114	0.964	30	55 - 115
Fluorene	35.72	36.42	102	1.34	30	50 - 110
Hexachlorobenzene	**35.72**	**39.72**	**111 ***	**2.70**	**30**	**50 - 110**
Hexachlorobutadiene	35.72	31.92	89.4	3.18	30	25 - 105
Hexachlorocyclopentadiene	35.72	24.37	68.2	6.98	30	0 - 120
Hexachloroethane	35.72	28.58	80.0	1.19	30	30 - 100

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K05004	Laboratory ID:	2K05004-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Indeno(1,2,3-cd)pyrene	35.72	40.88	114	1.51	30	45 - 125
Isophorone	35.72	36.74	103	4.46	30	50 - 110
1-Methylnaphthalene	35.72	34.96	97.9	4.79	30	35 - 115
2-Methylnaphthalene	35.72	34.35	96.2	5.07	30	45 - 105
2-Methylphenol	71.45	55.17	77.2	0.219	30	40 - 110
3-Methylphenol/4-Methylphenol	71.45	49.93	69.9	1.82	30	30 - 110
Naphthalene	35.72	35.25	98.7	1.91	30	40 - 100
4-Nitroaniline	**35.72**	**44.60**	**125 ***	**4.92**	**30**	**35 - 120**
3-Nitroaniline	35.72	38.97	109	2.19	30	20 - 125
2-Nitroaniline	**35.72**	**41.58**	**116 ***	**2.95**	**30**	**50 - 115**
Nitrobenzene	35.72	35.57	99.6	0.772	30	45 - 110
4-Nitrophenol	71.45	22.91	32.1	52.4 *	30	0 - 125
2-Nitrophenol	71.45	82.29	115	0.465	30	40 - 115
N-Nitrosodiphenylamine	35.72	34.92	97.8	2.23	30	50 - 110
N-Nitroso-di-n-propylamine	35.72	37.79	106	1.44	30	35 - 130
Pentachlorophenol	71.45	80.34	112	20.3	30	40 - 115
Phenanthrene	35.72	39.69	111	1.16	30	50 - 115
Phenol	71.45	22.61	31.6	0.966	30	0 - 115
Pyrene	35.72	42.24	118	1.57	30	50 - 130
2,4,6-Trichlorophenol	71.45	71.59	100	7.39	30	50 - 115
2,4,5-Trichlorophenol	71.45	76.25	107	0.703	30	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K07006	Laboratory ID:	2K07006-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	34.28	27.28	79.6	45 - 110
Acenaphthylene	34.28	29.41	85.8	50 - 105
Acetophenone	35.72	31.48	88.1	45 - 130
Anthracene	34.28	31.32	91.4	55 - 110
Atrazine	35.72	32.50	91.0	40 - 150
Benzaldehyde	35.72	34.21	95.8	40 - 125
Benzidine	35.72	100 U	0	0 - 110
Benzo(a)anthracene	34.28	32.93	96.1	55 - 110
Benzo(a)pyrene	34.28	31.90	93.0	55 - 110
Benzo(b)fluoranthene	34.28	32.28	94.2	45 - 120
Benzo(g,h,i)perylene	34.28	33.85	98.7	40 - 125
Benzoic acid	70.70	100 U	0	0 - 125
Benzo(k)fluoranthene	34.28	32.73	95.5	45 - 125
1,1-Biphenyl	35.72	31.52	88.2	45 - 135
4-Bromophenyl-phenylether	34.28	32.61	95.1	50 - 115
Butylbenzylphthalate	34.28	38.63	113	45 - 115
Caprolactam	35.72	6.790	19.0	5 - 110
Carbazole	35.72	37.66	105	50 - 115
4-Chloro-3-methylphenol	70.70	59.30	83.9	45 - 110
4-Chloroaniline	35.72	32.36	90.6	15 - 110
Bis(2-chloroethoxy)methane	34.28	32.06	93.5	45 - 105
Bis(2-chloroethyl)ether	34.28	30.79	89.8	35 - 110
2,2'-Oxybis-1-chloropropane	34.28	30.61	89.3	25 - 130
2-Chloronaphthalene	34.28	26.38	76.9	50 - 105
2-Chlorophenol	70.70	55.46	78.4	35 - 105
4-Chlorophenyl phenyl ether	34.28	29.33	85.5	50 - 110
Chrysene	34.28	32.95	96.1	55 - 110
Dibenz(a,h)anthracene	34.28	33.69	98.3	40 - 125
Dibenzofuran	34.28	29.93	87.3	55 - 105
Di-n-butylphthalate	34.28	35.17	103	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K07006	Laboratory ID:	2K07006-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	35.72	33.39	93.5	20 - 110
2,4-Dichlorophenol	70.70	60.80	86.0	50 - 105
Diethylphthalate	34.28	29.99	87.5	40 - 120
2,4-Dimethylphenol	70.70	51.81	73.3	30 - 110
Dimethyl phthalate	34.28	31.37	91.5	25 - 125
4,6-Dinitro-2-methylphenol	70.70	70.07	99.1	40 - 130
2,4-Dinitrophenol	70.70	56.86	80.4	15 - 140
2,4-Dinitrotoluene	34.28	31.51	91.9	50 - 120
2,6-Dinitrotoluene	34.28	30.68	89.5	50 - 115
Di-n-octylphthalate	34.28	39.91	116	35 - 135
1,2-Diphenylhydrazine	35.72	34.67	97.1	55 - 115
Bis(2-ethylhexyl)phthalate	34.28	38.64	113	40 - 125
Fluoranthene	34.28	33.09	96.5	55 - 115
Fluorene	34.28	29.73	86.7	50 - 110
Hexachlorobenzene	34.28	31.21	91.0	50 - 110
Hexachlorobutadiene	34.28	23.07	67.3	25 - 105
Hexachlorocyclopentadiene	34.28	22.00	64.2	0 - 120
Hexachloroethane	34.28	20.98	61.2	30 - 100
Indeno(1,2,3-cd)pyrene	34.28	32.32	94.3	45 - 125
Isophorone	34.28	29.21	85.2	50 - 110
1-Methylnaphthalene	35.72	28.94	81.0	35 - 115
2-Methylnaphthalene	34.28	25.57	74.6	45 - 105
2-Methylphenol	70.70	46.50	65.8	40 - 110
3-Methylphenol/4-Methylphenol	70.70	41.76	59.1	30 - 110
Naphthalene	34.28	27.13	79.1	40 - 100
4-Nitroaniline	35.72	38.63	108	35 - 120
3-Nitroaniline	35.72	35.72	100	20 - 125
2-Nitroaniline	35.72	35.06	98.2	50 - 115
Nitrobenzene	34.28	27.39	79.9	45 - 110
4-Nitrophenol	70.70	17.25	24.4	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K07006	Laboratory ID:	2K07006-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	70.70	70.33	99.5	40 - 115
N-Nitrosodiphenylamine	34.28	28.93	84.4	50 - 110
N-Nitroso-di-n-propylamine	34.28	30.40	88.7	35 - 130
Pentachlorophenol	70.70	65.38	92.5	40 - 115
Phenanthrene	34.28	31.95	93.2	50 - 115
Phenol	70.70	19.65	27.8	0 - 115
Pyrene	34.28	34.50	101	50 - 130
2,4,6-Trichlorophenol	70.70	59.37	84.0	50 - 115
2,4,5-Trichlorophenol	70.70	65.03	92.0	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08004	Laboratory ID:	2K08004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	34.28	18.76	54.7	45 - 110
Acenaphthylene	34.28	20.91	61.0	50 - 105
Acetophenone	35.72	23.55	65.9	45 - 130
Anthracene	34.28	21.23	61.9	55 - 110
Atrazine	35.72	23.29	65.2	40 - 150
Benzaldehyde	35.72	25.45	71.3	40 - 125
Benzidine	35.72	18.62	52.1	0 - 110
Benzo(a)anthracene	34.28	22.58	65.9	55 - 110
Benzo(a)pyrene	34.28	22.08	64.4	55 - 110
Benzo(b)fluoranthene	34.28	23.90	69.7	45 - 120
Benzo(g,h,i)perylene	34.28	22.53	65.7	40 - 125
Benzoic acid	70.70	100 U	0	0 - 125
Benzo(k)fluoranthene	34.28	20.77	60.6	45 - 125
1,1-Biphenyl	35.72	22.31	62.5	45 - 135
4-Bromophenyl-phenylether	34.28	21.32	62.2	50 - 115
Butylbenzylphthalate	34.28	24.90	72.6	45 - 115
Caprolactam	35.72	5.699	16.0	5 - 110
Carbazole	35.72	26.17	73.3	50 - 115
4-Chloro-3-methylphenol	70.70	44.72	63.3	45 - 110
4-Chloroaniline	35.72	33.44	93.6	15 - 110
Bis(2-chloroethoxy)methane	34.28	23.88	69.7	45 - 105
Bis(2-chloroethyl)ether	34.28	22.83	66.6	35 - 110
2,2'-Oxybis-1-chloropropane	34.28	22.03	64.2	25 - 130
2-Chloronaphthalene	34.28	19.12	55.8	50 - 105
2-Chlorophenol	70.70	43.95	62.2	35 - 105
4-Chlorophenyl phenyl ether	34.28	20.36	59.4	50 - 110
Chrysene	34.28	22.26	64.9	55 - 110
Dibenz(a,h)anthracene	34.28	22.82	66.6	40 - 125
Dibenzofuran	34.28	20.70	60.4	55 - 105
Di-n-butylphthalate	34.28	24.40	71.2	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08004	Laboratory ID:	2K08004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	35.72	25.17	70.5	20 - 110
2,4-Dichlorophenol	70.70	46.12	65.2	50 - 105
Diethylphthalate	34.28	20.40	59.5	40 - 120
2,4-Dimethylphenol	70.70	40.93	57.9	30 - 110
Dimethyl phthalate	34.28	21.79	63.6	25 - 125
4,6-Dinitro-2-methylphenol	70.70	47.66	67.4	40 - 130
2,4-Dinitrophenol	70.70	39.44	55.8	15 - 140
2,4-Dinitrotoluene	34.28	21.13	61.6	50 - 120
2,6-Dinitrotoluene	34.28	21.67	63.2	50 - 115
Di-n-octylphthalate	34.28	26.68	77.8	35 - 135
1,2-Diphenylhydrazine	35.72	23.52	65.9	55 - 115
Bis(2-ethylhexyl)phthalate	34.28	25.18	73.5	40 - 125
Fluoranthene	34.28	22.75	66.4	55 - 115
Fluorene	34.28	20.13	58.7	50 - 110
Hexachlorobenzene	34.28	20.67	60.3	50 - 110
Hexachlorobutadiene	34.28	16.69	48.7	25 - 105
Hexachlorocyclopentadiene	34.28	15.58	45.4	0 - 120
Hexachloroethane	34.28	15.33	44.7	30 - 100
Indeno(1,2,3-cd)pyrene	34.28	21.52	62.8	45 - 125
Isophorone	34.28	21.52	62.8	50 - 110
1-Methylnaphthalene	35.72	20.36	57.0	35 - 115
2-Methylnaphthalene	34.28	18.41	53.7	45 - 105
2-Methylphenol	70.70	38.92	55.1	40 - 110
3-Methylphenol/4-Methylphenol	70.70	34.06	48.2	30 - 110
Naphthalene	34.28	20.25	59.1	40 - 100
4-Nitroaniline	35.72	29.50	82.6	35 - 120
3-Nitroaniline	35.72	32.45	90.9	20 - 125
2-Nitroaniline	35.72	25.79	72.2	50 - 115
Nitrobenzene	34.28	20.41	59.5	45 - 110
4-Nitrophenol	70.70	14.40	20.4	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08004	Laboratory ID:	2K08004-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	70.70	50.18	71.0	40 - 115
N-Nitrosodiphenylamine	34.28	19.62	57.2	50 - 110
N-Nitroso-di-n-propylamine	34.28	21.46	62.6	35 - 130
Pentachlorophenol	70.70	41.19	58.3	40 - 115
Phenanthrene	34.28	22.16	64.6	50 - 115
Phenol	70.70	16.51	23.4	0 - 115
Pyrene	34.28	22.72	66.3	50 - 130
2,4,6-Trichlorophenol	70.70	41.81	59.1	50 - 115
2,4,5-Trichlorophenol	70.70	47.24	66.8	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K02001

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	35.72	ND	30.45	85.3		45 - 110
Acenaphthylene	35.72	ND	33.51	93.8		50 - 105
Acetophenone	35.72	ND	37.13	104		45 - 130
Anthracene	35.72	ND	35.79	100		55 - 110
Atrazine	35.72	ND	37.81	106		40 - 150
Benzaldehyde	35.72	ND	39.49	111		40 - 125
Benzidine	35.72	ND	100 U	0		0 - 110
Benzo(a)anthracene	35.72	ND	36.46	102		55 - 110
Benzo(a)pyrene	35.72	ND	35.73	100		55 - 110
Benzo(b)fluoranthene	35.72	ND	41.80	117		45 - 120
Benzo(g,h,i)perylene	35.72	ND	37.25	104		40 - 125
Benzoic acid	71.45	ND	100 U	0		0 - 125
Benzo(k)fluoranthene	35.72	ND	30.47	85.3		45 - 125
1,1-Biphenyl	35.72	ND	36.53	102		45 - 135
4-Bromophenyl-phenylether	35.72	ND	35.38	99.1		50 - 115
Butylbenzylphthalate	35.72	ND	41.43	116	*	45 - 115
Caprolactam	35.72	ND	8.786	24.6		5 - 110
Carbazole	35.72	ND	38.23	107		50 - 115
4-Chloro-3-methylphenol	71.45	ND	50.94	71.3		45 - 110
4-Chloroaniline	35.72	ND	28.46	79.7		15 - 110
Bis(2-chloroethoxy)methane	35.72	ND	34.40	96.3		45 - 105
Bis(2-chloroethyl)ether	35.72	ND	33.92	95.0		35 - 110
2,2'-Oxybis-1-chloropropane	35.72	ND	34.89	97.7		25 - 130
2-Chloronaphthalene	35.72	ND	31.10	87.1		50 - 105
2-Chlorophenol	71.45	ND	38.15	53.4		35 - 105
4-Chlorophenyl phenyl ether	35.72	ND	32.41	90.7		50 - 110
Chrysene	35.72	ND	35.81	100		55 - 110
Dibenz(a,h)anthracene	35.72	ND	36.76	103		40 - 125
Dibenzofuran	35.72	ND	33.61	94.1		55 - 105
Di-n-butylphthalate	35.72	ND	38.59	108		55 - 115
3,3'-Dichlorobenzidine	35.72	ND	35.33	98.9		20 - 110
2,4-Dichlorophenol	71.45	ND	39.05	54.6		50 - 105

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K02001

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Diethylphthalate	35.72	ND	33.36	93.4		40 - 120
2,4-Dimethylphenol	71.45	ND	52.39	73.3		30 - 110
Dimethyl phthalate	35.72	ND	34.25	95.9		25 - 125
4,6-Dinitro-2-methylphenol	71.45	ND	35.12	49.2		40 - 130
2,4-Dinitrophenol	71.45	ND	28.81	40.3		15 - 140
2,4-Dinitrotoluene	35.72	ND	34.93	97.8		50 - 120
2,6-Dinitrotoluene	35.72	ND	35.49	99.4		50 - 115
Di-n-octylphthalate	35.72	ND	41.83	117		35 - 135
1,2-Diphenylhydrazine	35.72	ND	35.25	98.7		55 - 115
Bis(2-ethylhexyl)phthalate	35.72	ND	40.44	113		40 - 125
Fluoranthene	35.72	ND	37.46	105		55 - 115
Fluorene	35.72	ND	32.41	90.7		50 - 110
Hexachlorobenzene	35.72	ND	35.37	99.0		50 - 110
Hexachlorobutadiene	35.72	ND	30.91	86.5		25 - 105
Hexachlorocyclopentadiene	35.72	ND	24.53	68.7		0 - 120
Hexachloroethane	35.72	ND	29.28	82.0		30 - 100
Indeno(1,2,3-cd)pyrene	35.72	ND	35.92	101		45 - 125
Isophorone	35.72	ND	31.19	87.3		50 - 110
1-Methylnaphthalene	35.72	ND	30.98	86.7		35 - 115
2-Methylnaphthalene	35.72	ND	30.70	85.9		45 - 105
2-Methylphenol	71.45	ND	45.11	63.1		40 - 110
3-Methylphenol/4-Methylphenol	71.45	ND	38.87	54.4		30 - 110
Naphthalene	35.72	ND	32.28	90.4		40 - 100
4-Nitroaniline	35.72	ND	36.20	101		35 - 120
3-Nitroaniline	35.72	ND	35.33	98.9		20 - 125
2-Nitroaniline	35.72	ND	36.28	102		50 - 115
Nitrobenzene	35.72	ND	31.28	87.6		45 - 110
4-Nitrophenol	71.45	ND	9.587	13.4		0 - 125
2-Nitrophenol	71.45	ND	42.57	59.6		40 - 115
N-Nitrosodiphenylamine	35.72	ND	30.64	85.8		50 - 110
N-Nitroso-di-n-propylamine	35.72	ND	34.78	97.4		35 - 130
Pentachlorophenol	71.45	ND	37.73	52.8		40 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K02001

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Phenanthrene	35.72	ND	35.74	100		50 - 115
Phenol	71.45	ND	14.47	20.2		0 - 115
Pyrene	35.72	ND	37.50	105		50 - 130
2,4,6-Trichlorophenol	71.45	ND	33.39	46.7	*	50 - 115
2,4,5-Trichlorophenol	71.45	ND	39.64	55.5		50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K02001

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	35.72	32.69	91.5	7.09		30	45 - 110
Acenaphthylene	35.72	35.27	98.8	5.13		30	50 - 105
Acetophenone	35.72	38.22	107	2.90		30	45 - 130
Anthracene	35.72	37.80	106	5.46		30	55 - 110
Atrazine	35.72	41.12	115	8.38		30	40 - 150
Benzaldehyde	35.72	40.42	113	2.33		30	40 - 125
Benzidine	35.72	100 U	0			30	0 - 110
Benzo(a)anthracene	35.72	38.35	107	5.05		30	55 - 110
Benzo(a)pyrene	35.72	37.98	106	6.12		30	55 - 110
Benzo(b)fluoranthene	35.72	38.75	108	7.58		30	45 - 120
Benzo(g,h,i)perylene	35.72	38.23	107	2.59		30	40 - 125
Benzoic acid	71.45	100 U	0			30	0 - 125
Benzo(k)fluoranthene	35.72	35.11	98.3	14.1		30	45 - 125
1,1-Biphenyl	35.72	39.30	110	7.32		30	45 - 135
4-Bromophenyl-phenylether	35.72	37.07	104	4.67		30	50 - 115
Butylbenzylphthalate	35.72	43.70	122	5.33	*	30	45 - 115
Caprolactam	35.72	10.66	29.8	19.3		30	5 - 110
Carbazole	35.72	40.07	112	4.70		30	50 - 115
4-Chloro-3-methylphenol	71.45	63.30	88.6	21.6		30	45 - 110
4-Chloroaniline	35.72	31.62	88.5	10.5		30	15 - 110
Bis(2-chloroethoxy)methane	35.72	37.84	106	9.52	*	30	45 - 105
Bis(2-chloroethyl)ether	35.72	35.86	100	5.56		30	35 - 110
2,2'-Oxybis-1-chloropropane	35.72	35.50	99.4	1.72		30	25 - 130
2-Chloronaphthalene	35.72	34.07	95.4	9.12		30	50 - 105
2-Chlorophenol	71.45	58.75	82.2	42.5	*	30	35 - 105
4-Chlorophenyl phenyl ether	35.72	35.41	99.1	8.85		30	50 - 110
Chrysene	35.72	38.45	108	7.11		30	55 - 110
Dibenz(a,h)anthracene	35.72	39.22	110	6.45		30	40 - 125
Dibenzofuran	35.72	35.94	101	6.71		30	55 - 105
Di-n-butylphthalate	35.72	40.38	113	4.53		30	55 - 115
3,3'-Dichlorobenzidine	35.72	37.86	106	6.92		30	20 - 110
2,4-Dichlorophenol	71.45	62.86	88.0	46.7	*	30	50 - 105
Diethylphthalate	35.72	35.60	99.7	6.51		30	40 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K02001

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
2,4-Dimethylphenol	71.45	55.92	78.3	6.52		30	30 - 110
Dimethyl phthalate	35.72	36.02	101	5.02		30	25 - 125
4,6-Dinitro-2-methylphenol	71.45	47.87	67.0	30.7	*	30	40 - 130
2,4-Dinitrophenol	71.45	35.68	49.9	21.3		30	15 - 140
2,4-Dinitrotoluene	35.72	37.95	106	8.30		30	50 - 120
2,6-Dinitrotoluene	35.72	37.12	104	4.50		30	50 - 115
Di-n-octylphthalate	35.72	44.52	125	6.23		30	35 - 135
1,2-Diphenylhydrazine	35.72	37.41	105	5.95		30	55 - 115
Bis(2-ethylhexyl)phthalate	35.72	43.63	122	7.57		30	40 - 125
Fluoranthene	35.72	38.94	109	3.89		30	55 - 115
Fluorene	35.72	34.68	97.1	6.76		30	50 - 110
Hexachlorobenzene	35.72	37.66	105	6.27		30	50 - 110
Hexachlorobutadiene	35.72	33.22	93.0	7.21		30	25 - 105
Hexachlorocyclopentadiene	35.72	26.23	73.5	6.73		30	0 - 120
Hexachloroethane	35.72	29.49	82.6	0.707		30	30 - 100
Indeno(1,2,3-cd)pyrene	35.72	37.77	106	5.02		30	45 - 125
Isophorone	35.72	33.55	93.9	7.31		30	50 - 110
1-Methylnaphthalene	35.72	33.12	92.7	6.69		30	35 - 115
2-Methylnaphthalene	35.72	32.93	92.2	7.02		30	45 - 105
2-Methylphenol	71.45	49.43	69.2	9.13		30	40 - 110
3-Methylphenol/4-Methylphenol	71.45	44.01	61.6	12.4		30	30 - 110
Naphthalene	35.72	34.84	97.5	7.62		30	40 - 100
4-Nitroaniline	35.72	39.03	109	7.52		30	35 - 120
3-Nitroaniline	35.72	36.78	103	4.02		30	20 - 125
2-Nitroaniline	35.72	38.55	108	6.08		30	50 - 115
Nitrobenzene	35.72	33.40	93.5	6.54		30	45 - 110
4-Nitrophenol	71.45	12.16	17.0	23.6		30	0 - 125
2-Nitrophenol	71.45	70.59	98.8	49.5	*	30	40 - 115
N-Nitrosodiphenylamine	35.72	31.96	89.5	4.22		30	50 - 110
N-Nitroso-di-n-propylamine	35.72	35.49	99.4	2.03		30	35 - 130
Pentachlorophenol	71.45	54.88	76.8	37.0	*	30	40 - 115
Phenanthrene	35.72	37.70	106	5.36		30	50 - 115
Phenol	71.45	19.34	27.1	28.9		30	0 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K02001

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Pyrene	35.72	40.20	113	6.96		30	50 - 130
2,4,6-Trichlorophenol	71.45	53.04	74.2	45.5	*	30	50 - 115
2,4,5-Trichlorophenol	71.45	63.41	88.7	46.1	*	30	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07006

% Solids:

Source Sample Name: **1211036-15**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	34.28	ND	25.81	75.3		45 - 110
Acenaphthylene	34.28	ND	27.80	81.1		50 - 105
Acetophenone	35.72	ND	28.86	80.8		45 - 130
Anthracene	34.28	ND	28.76	83.9		55 - 110
Atrazine	35.72	ND	28.99	81.2		40 - 150
Benzaldehyde	35.72	ND	32.01	89.6		40 - 125
Benzidine	35.72	ND	21.37	59.8		0 - 110
Benzo(a)anthracene	34.28	ND	30.16	88.0		55 - 110
Benzo(a)pyrene	34.28	ND	29.22	85.2		55 - 110
Benzo(b)fluoranthene	34.28	ND	29.32	85.5		45 - 120
Benzo(g,h,i)perylene	34.28	ND	31.06	90.6		40 - 125
Benzoic acid	70.70	ND	100 U	0		0 - 125
Benzo(k)fluoranthene	34.28	ND	31.17	90.9		45 - 125
1,1-Biphenyl	35.72	ND	28.32	79.3		45 - 135
4-Bromophenyl-phenylether	34.28	ND	29.74	86.8		50 - 115
Butylbenzylphthalate	34.28	ND	35.53	104		45 - 115
Caprolactam	35.72	ND	5.860	16.4		5 - 110
Carbazole	35.72	ND	34.37	96.2		50 - 115
4-Chloro-3-methylphenol	70.70	ND	53.81	76.1		45 - 110
4-Chloroaniline	35.72	ND	29.95	83.9		15 - 110
Bis(2-chloroethoxy)methane	34.28	ND	30.03	87.6		45 - 105
Bis(2-chloroethyl)ether	34.28	ND	28.31	82.6		35 - 110
2,2'-Oxybis-1-chloropropane	34.28	ND	28.48	83.1		25 - 130
2-Chloronaphthalene	34.28	ND	25.11	73.2		50 - 105
2-Chlorophenol	70.70	ND	51.54	72.9		35 - 105
4-Chlorophenyl phenyl ether	34.28	ND	27.39	79.9		50 - 110
Chrysene	34.28	ND	29.86	87.1		55 - 110
Dibenz(a,h)anthracene	34.28	ND	30.94	90.3		40 - 125
Dibenzofuran	34.28	ND	27.65	80.7		55 - 105
Di-n-butylphthalate	34.28	ND	32.19	93.9		55 - 115
3,3'-Dichlorobenzidine	35.72	ND	32.92	92.2		20 - 110
2,4-Dichlorophenol	70.70	ND	57.12	80.8		50 - 105

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07006

% Solids:

Source Sample Name: **1211036-15**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Diethylphthalate	34.28	ND	26.96	78.6		40 - 120
2,4-Dimethylphenol	70.70	ND	49.99	70.7		30 - 110
Dimethyl phthalate	34.28	ND	28.56	83.3		25 - 125
4,6-Dinitro-2-methylphenol	70.70	ND	54.71	77.4		40 - 130
2,4-Dinitrophenol	70.70	ND	34.62	49.0		15 - 140
2,4-Dinitrotoluene	34.28	ND	27.75	80.9		50 - 120
2,6-Dinitrotoluene	34.28	ND	28.42	82.9		50 - 115
Di-n-octylphthalate	34.28	ND	36.52	107		35 - 135
1,2-Diphenylhydrazine	35.72	ND	31.15	87.2		55 - 115
Bis(2-ethylhexyl)phthalate	34.28	ND	34.81	102		40 - 125
Fluoranthene	34.28	ND	30.49	88.9		55 - 115
Fluorene	34.28	ND	27.36	79.8		50 - 110
Hexachlorobenzene	34.28	ND	28.95	84.4		50 - 110
Hexachlorobutadiene	34.28	ND	23.76	69.3		25 - 105
Hexachlorocyclopentadiene	34.28	ND	22.16	64.6		0 - 120
Hexachloroethane	34.28	ND	21.26	62.0		30 - 100
Indeno(1,2,3-cd)pyrene	34.28	ND	28.85	84.1		45 - 125
Isophorone	34.28	ND	27.75	80.9		50 - 110
1-Methylnaphthalene	35.72	ND	27.47	76.9		35 - 115
2-Methylnaphthalene	34.28	ND	25.42	74.1		45 - 105
2-Methylphenol	70.70	ND	44.73	63.3		40 - 110
3-Methylphenol/4-Methylphenol	70.70	ND	39.41	55.7		30 - 110
Naphthalene	34.28	ND	26.85	78.3		40 - 100
4-Nitroaniline	35.72	ND	35.80	100		35 - 120
3-Nitroaniline	35.72	ND	32.29	90.4		20 - 125
2-Nitroaniline	35.72	ND	31.79	89.0		50 - 115
Nitrobenzene	34.28	ND	25.97	75.8		45 - 110
4-Nitrophenol	70.70	ND	15.13	21.4		0 - 125
2-Nitrophenol	70.70	ND	64.62	91.4		40 - 115
N-Nitrosodiphenylamine	34.28	ND	25.92	75.6		50 - 110
N-Nitroso-di-n-propylamine	34.28	ND	28.01	81.7		35 - 130
Pentachlorophenol	70.70	ND	56.59	80.0		40 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07006

% Solids:

Source Sample Name: **1211036-15**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Phenanthrene	34.28	ND	28.83	84.1		50 - 115
Phenol	70.70	ND	18.29	25.9		0 - 115
Pyrene	34.28	ND	31.21	91.0		50 - 130
2,4,6-Trichlorophenol	70.70	ND	53.90	76.2		50 - 115
2,4,5-Trichlorophenol	70.70	ND	58.08	82.2		50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07006

% Solids:

Source Sample Name: **1211036-15**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	34.28	13.14	38.3	65.0	* *	30	45 - 110
Acenaphthylene	34.28	14.39	42.0	63.6	* *	30	50 - 105
Acetophenone	35.72	14.86	41.6	64.1	* *	30	45 - 130
Anthracene	34.28	15.43	45.0	60.4	* *	30	55 - 110
Atrazine	35.72	16.33	45.7	55.9	*	30	40 - 150
Benzaldehyde	35.72	16.23	45.4	65.4	*	30	40 - 125
Benzidine	35.72	100 U	0			30	0 - 110
Benzo(a)anthracene	34.28	16.12	47.0	60.6	* *	30	55 - 110
Benzo(a)pyrene	34.28	15.40	44.9	61.9	* *	30	55 - 110
Benzo(b)fluoranthene	34.28	16.52	48.2	55.9	*	30	45 - 120
Benzo(g,h,i)perylene	34.28	16.18	47.2	63.0	*	30	40 - 125
Benzoic acid	70.70	100 U	0			30	0 - 125
Benzo(k)fluoranthene	34.28	14.89	43.4	70.7	* *	30	45 - 125
1,1-Biphenyl	35.72	15.55	43.5	58.2	* *	30	45 - 135
4-Bromophenyl-phenylether	34.28	15.09	44.0	65.4	* *	30	50 - 115
Butylbenzylphthalate	34.28	17.91	52.2	66.0	*	30	45 - 115
Caprolactam	35.72	4.104	11.5	35.2	*	30	5 - 110
Carbazole	35.72	18.93	53.0	57.9	*	30	50 - 115
4-Chloro-3-methylphenol	70.70	28.34	40.1	62.0	* *	30	45 - 110
4-Chloroaniline	35.72	28.04	78.5	6.60		30	15 - 110
Bis(2-chloroethoxy)methane	34.28	15.45	45.1	64.1	*	30	45 - 105
Bis(2-chloroethyl)ether	34.28	15.13	44.1	60.7	*	30	35 - 110
2,2'-Oxybis-1-chloropropane	34.28	14.34	41.8	66.1	*	30	25 - 130
2-Chloronaphthalene	34.28	12.95	37.8	63.9	* *	30	50 - 105
2-Chlorophenol	70.70	24.22	34.3	72.1	* *	30	35 - 105
4-Chlorophenyl phenyl ether	34.28	13.57	39.6	67.5	* *	30	50 - 110
Chrysene	34.28	16.80	49.0	56.0	* *	30	55 - 110
Dibenz(a,h)anthracene	34.28	16.16	47.1	62.8	*	30	40 - 125
Dibenzofuran	34.28	14.53	42.4	62.2	* *	30	55 - 105
Di-n-butylphthalate	34.28	17.78	51.9	57.7	* *	30	55 - 115
3,3'-Dichlorobenzidine	35.72	18.95	53.1	53.9	*	30	20 - 110
2,4-Dichlorophenol	70.70	25.51	36.1	76.5	* *	30	50 - 105
Diethylphthalate	34.28	14.93	43.5	57.4	*	30	40 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07006

% Solids:

Source Sample Name: **1211036-15**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
2,4-Dimethylphenol	70.70	27.15	38.4	59.2	*	30	30 - 110
Dimethyl phthalate	34.28	15.35	44.8	60.2	*	30	25 - 125
4,6-Dinitro-2-methylphenol	70.70	14.28	20.2	117	* *	30	40 - 130
2,4-Dinitrophenol	70.70	9.279	13.1	115	* *	30	15 - 140
2,4-Dinitrotoluene	34.28	14.62	42.7	61.9	* *	30	50 - 120
2,6-Dinitrotoluene	34.28	14.00	40.8	68.0	* *	30	50 - 115
Di-n-octylphthalate	34.28	19.24	56.1	62.0	*	30	35 - 135
1,2-Diphenylhydrazine	35.72	16.52	46.3	61.4	* *	30	55 - 115
Bis(2-ethylhexyl)phthalate	34.28	18.25	53.2	62.4	*	30	40 - 125
Fluoranthene	34.28	16.58	48.4	59.1	* *	30	55 - 115
Fluorene	34.28	14.16	41.3	63.6	* *	30	50 - 110
Hexachlorobenzene	34.28	14.70	42.9	65.3	* *	30	50 - 110
Hexachlorobutadiene	34.28	11.58	33.8	68.9	*	30	25 - 105
Hexachlorocyclopentadiene	34.28	10.07	29.4	75.0	*	30	0 - 120
Hexachloroethane	34.28	9.825	28.7	73.6	* *	30	30 - 100
Indeno(1,2,3-cd)pyrene	34.28	15.26	44.5	61.6	* *	30	45 - 125
Isophorone	34.28	14.19	41.4	64.6	* *	30	50 - 110
1-Methylnaphthalene	35.72	13.88	38.9	65.7	*	30	35 - 115
2-Methylnaphthalene	34.28	12.59	36.7	67.5	* *	30	45 - 105
2-Methylphenol	70.70	24.33	34.4	59.1	* *	30	40 - 110
3-Methylphenol/4-Methylphenol	70.70	21.61	30.6	58.3	*	30	30 - 110
Naphthalene	34.28	13.54	39.5	65.9	* *	30	40 - 100
4-Nitroaniline	35.72	20.96	58.7	52.3	*	30	35 - 120
3-Nitroaniline	35.72	24.51	68.6	27.4		30	20 - 125
2-Nitroaniline	35.72	17.30	48.4	59.1	* *	30	50 - 115
Nitrobenzene	34.28	12.83	37.4	67.8	* *	30	45 - 110
4-Nitrophenol	70.70	20.0 U	0			30	0 - 125
2-Nitrophenol	70.70	27.43	38.8	80.8	* *	30	40 - 115
N-Nitrosodiphenylamine	34.28	13.90	40.5	60.4	* *	30	50 - 110
N-Nitroso-di-n-propylamine	34.28	13.84	40.4	67.7	*	30	35 - 130
Pentachlorophenol	70.70	12.61	17.8	127	* *	30	40 - 115
Phenanthrene	34.28	15.59	45.5	59.6	* *	30	50 - 115
Phenol	70.70	10.80	15.3	51.4	*	30	0 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07006

% Solids:

Source Sample Name: **1211036-15**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Pyrene	34.28	16.59	48.4	61.1	* *	30	50 - 130
2,4,6-Trichlorophenol	70.70	17.91	25.3	100	* *	30	50 - 115
2,4,5-Trichlorophenol	70.70	23.74	33.6	83.9	* *	30	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07006

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	34.28	ND	25.51	74.4		45 - 110
Acenaphthylene	34.28	ND	27.27	79.5		50 - 105
Acetophenone	35.72	ND	28.05	78.5		45 - 130
Anthracene	34.28	ND	27.61	80.5		55 - 110
Atrazine	35.72	ND	28.68	80.3		40 - 150
Benzaldehyde	35.72	ND	31.81	89.1		40 - 125
Benzidine	35.72	ND	12.65	35.4		0 - 110
Benzo(a)anthracene	34.28	ND	29.27	85.4		55 - 110
Benzo(a)pyrene	34.28	ND	28.47	83.0		55 - 110
Benzo(b)fluoranthene	34.28	ND	28.84	84.1		45 - 120
Benzo(g,h,i)perylene	34.28	ND	30.03	87.6		40 - 125
Benzoic acid	70.70	ND	100 U	0		0 - 125
Benzo(k)fluoranthene	34.28	ND	29.05	84.7		45 - 125
1,1-Biphenyl	35.72	ND	29.13	81.6		45 - 135
4-Bromophenyl-phenylether	34.28	ND	29.42	85.8		50 - 115
Butylbenzylphthalate	34.28	ND	33.95	99.0		45 - 115
Caprolactam	35.72	ND	5.670	15.9		5 - 110
Carbazole	35.72	ND	33.66	94.2		50 - 115
4-Chloro-3-methylphenol	70.70	ND	53.47	75.6		45 - 110
4-Chloroaniline	35.72	ND	27.21	76.2		15 - 110
Bis(2-chloroethoxy)methane	34.28	ND	28.55	83.3		45 - 105
Bis(2-chloroethyl)ether	34.28	ND	28.20	82.3		35 - 110
2,2'-Oxybis-1-chloropropane	34.28	ND	27.31	79.7		25 - 130
2-Chloronaphthalene	34.28	ND	25.06	73.1		50 - 105
2-Chlorophenol	70.70	ND	51.44	72.8		35 - 105
4-Chlorophenyl phenyl ether	34.28	ND	26.66	77.8		50 - 110
Chrysene	34.28	ND	28.95	84.4		55 - 110
Dibenz(a,h)anthracene	34.28	ND	29.50	86.0		40 - 125
Dibenzofuran	34.28	ND	27.25	79.5		55 - 105
Di-n-butylphthalate	34.28	ND	31.45	91.7		55 - 115
3,3'-Dichlorobenzidine	35.72	ND	32.73	91.6		20 - 110
2,4-Dichlorophenol	70.70	ND	56.03	79.2		50 - 105

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07006

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Diethylphthalate	34.28	ND	26.30	76.7		40 - 120
2,4-Dimethylphenol	70.70	ND	47.22	66.8		30 - 110
Dimethyl phthalate	34.28	ND	28.16	82.1		25 - 125
4,6-Dinitro-2-methylphenol	70.70	ND	61.43	86.9		40 - 130
2,4-Dinitrophenol	70.70	ND	46.25	65.4		15 - 140
2,4-Dinitrotoluene	34.28	ND	27.72	80.9		50 - 120
2,6-Dinitrotoluene	34.28	ND	27.45	80.1		50 - 115
Di-n-octylphthalate	34.28	ND	35.83	105		35 - 135
1,2-Diphenylhydrazine	35.72	ND	30.76	86.1		55 - 115
Bis(2-ethylhexyl)phthalate	34.28	ND	34.03	99.3		40 - 125
Fluoranthene	34.28	ND	29.54	86.2		55 - 115
Fluorene	34.28	ND	26.74	78.0		50 - 110
Hexachlorobenzene	34.28	ND	27.32	79.7		50 - 110
Hexachlorobutadiene	34.28	ND	23.93	69.8		25 - 105
Hexachlorocyclopentadiene	34.28	ND	22.97	67.0		0 - 120
Hexachloroethane	34.28	ND	20.39	59.5		30 - 100
Indeno(1,2,3-cd)pyrene	34.28	ND	28.29	82.5		45 - 125
Isophorone	34.28	ND	26.51	77.3		50 - 110
1-Methylnaphthalene	35.72	ND	27.45	76.9		35 - 115
2-Methylnaphthalene	34.28	ND	24.73	72.1		45 - 105
2-Methylphenol	70.70	ND	42.81	60.5		40 - 110
3-Methylphenol/4-Methylphenol	70.70	ND	38.76	54.8		30 - 110
Naphthalene	34.28	ND	26.25	76.6		40 - 100
4-Nitroaniline	35.72	ND	33.81	94.7		35 - 120
3-Nitroaniline	35.72	ND	30.84	86.3		20 - 125
2-Nitroaniline	35.72	ND	32.76	91.7		50 - 115
Nitrobenzene	34.28	ND	25.46	74.3		45 - 110
4-Nitrophenol	70.70	ND	17.63	24.9		0 - 125
2-Nitrophenol	70.70	ND	63.51	89.8		40 - 115
N-Nitrosodiphenylamine	34.28	ND	25.76	75.1		50 - 110
N-Nitroso-di-n-propylamine	34.28	ND	26.02	75.9		35 - 130
Pentachlorophenol	70.70	ND	57.96	82.0		40 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07006

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Phenanthrene	34.28	ND	28.65	83.6		50 - 115
Phenol	70.70	ND	18.18	25.7		0 - 115
Pyrene	34.28	ND	30.73	89.6		50 - 130
2,4,6-Trichlorophenol	70.70	ND	55.16	78.0		50 - 115
2,4,5-Trichlorophenol	70.70	ND	59.09	83.6		50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07006

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	34.28	29.07	84.8	13.1		30	45 - 110
Acenaphthylene	34.28	30.90	90.1	12.5		30	50 - 105
Acetophenone	35.72	32.27	90.4	14.0		30	45 - 130
Anthracene	34.28	31.57	92.1	13.4		30	55 - 110
Atrazine	35.72	33.42	93.6	15.3		30	40 - 150
Benzaldehyde	35.72	36.50	102	13.7		30	40 - 125
Benzidine	35.72	22.13	62.0	54.5	*	30	0 - 110
Benzo(a)anthracene	34.28	33.13	96.6	12.4		30	55 - 110
Benzo(a)pyrene	34.28	31.90	93.1	11.4		30	55 - 110
Benzo(b)fluoranthene	34.28	37.25	109	25.4		30	45 - 120
Benzo(g,h,i)perylene	34.28	33.65	98.2	11.4		30	40 - 125
Benzoic acid	70.70	100 U	0			30	0 - 125
Benzo(k)fluoranthene	34.28	28.81	84.0	0.846		30	45 - 125
1,1-Biphenyl	35.72	32.66	91.4	11.4		30	45 - 135
4-Bromophenyl-phenylether	34.28	33.86	98.8	14.1		30	50 - 115
Butylbenzylphthalate	34.28	38.35	112	12.2		30	45 - 115
Caprolactam	35.72	6.456	18.1	13.0		30	5 - 110
Carbazole	35.72	38.40	108	13.1		30	50 - 115
4-Chloro-3-methylphenol	70.70	59.31	83.9	10.4		30	45 - 110
4-Chloroaniline	35.72	31.72	88.8	15.3		30	15 - 110
Bis(2-chloroethoxy)methane	34.28	32.78	95.6	13.8		30	45 - 105
Bis(2-chloroethyl)ether	34.28	32.62	95.1	14.5		30	35 - 110
2,2'-Oxybis-1-chloropropane	34.28	31.57	92.1	14.5		30	25 - 130
2-Chloronaphthalene	34.28	28.62	83.5	13.3		30	50 - 105
2-Chlorophenol	70.70	58.08	82.2	12.1		30	35 - 105
4-Chlorophenyl phenyl ether	34.28	30.43	88.8	13.2		30	50 - 110
Chrysene	34.28	31.69	92.4	9.06		30	55 - 110
Dibenz(a,h)anthracene	34.28	33.63	98.1	13.1		30	40 - 125
Dibenzofuran	34.28	30.64	89.4	11.7		30	55 - 105
Di-n-butylphthalate	34.28	35.80	104	12.9		30	55 - 115
3,3'-Dichlorobenzidine	35.72	35.47	99.3	8.02		30	20 - 110
2,4-Dichlorophenol	70.70	62.33	88.2	10.7		30	50 - 105
Diethylphthalate	34.28	30.27	88.3	14.0		30	40 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07006

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
2,4-Dimethylphenol	70.70	49.57	70.1	4.86		30	30 - 110
Dimethyl phthalate	34.28	32.12	93.7	13.2		30	25 - 125
4,6-Dinitro-2-methylphenol	70.70	51.41	72.7	17.8		30	40 - 130
2,4-Dinitrophenol	70.70	29.82	42.2	43.2	*	30	15 - 140
2,4-Dinitrotoluene	34.28	31.70	92.5	13.4		30	50 - 120
2,6-Dinitrotoluene	34.28	32.38	94.4	16.5		30	50 - 115
Di-n-octylphthalate	34.28	40.30	118	11.8		30	35 - 135
1,2-Diphenylhydrazine	35.72	33.46	93.7	8.40		30	55 - 115
Bis(2-ethylhexyl)phthalate	34.28	38.19	111	11.5		30	40 - 125
Fluoranthene	34.28	33.43	97.5	12.4		30	55 - 115
Fluorene	34.28	30.57	89.2	13.4		30	50 - 110
Hexachlorobenzene	34.28	31.29	91.3	13.6		30	50 - 110
Hexachlorobutadiene	34.28	27.91	81.4	15.4		30	25 - 105
Hexachlorocyclopentadiene	34.28	26.36	76.9	13.7		30	0 - 120
Hexachloroethane	34.28	23.92	69.8	15.9		30	30 - 100
Indeno(1,2,3-cd)pyrene	34.28	31.46	91.8	10.6		30	45 - 125
Isophorone	34.28	29.61	86.4	11.0		30	50 - 110
1-Methylnaphthalene	35.72	30.34	85.0	10.0		30	35 - 115
2-Methylnaphthalene	34.28	27.99	81.6	12.3		30	45 - 105
2-Methylphenol	70.70	49.93	70.6	15.4		30	40 - 110
3-Methylphenol/4-Methylphenol	70.70	43.60	61.7	11.7		30	30 - 110
Naphthalene	34.28	29.11	84.9	10.3		30	40 - 100
4-Nitroaniline	35.72	39.83	112	16.4		30	35 - 120
3-Nitroaniline	35.72	36.33	102	16.4		30	20 - 125
2-Nitroaniline	35.72	35.71	100	8.61		30	50 - 115
Nitrobenzene	34.28	28.71	83.7	12.0		30	45 - 110
4-Nitrophenol	70.70	14.03	19.8	22.7		30	0 - 125
2-Nitrophenol	70.70	70.62	99.9	10.6		30	40 - 115
N-Nitrosodiphenylamine	34.28	28.81	84.0	11.2		30	50 - 110
N-Nitroso-di-n-propylamine	34.28	30.28	88.3	15.1		30	35 - 130
Pentachlorophenol	70.70	54.43	77.0	6.28		30	40 - 115
Phenanthrene	34.28	32.38	94.4	12.2		30	50 - 115
Phenol	70.70	20.58	29.1	12.4		30	0 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270D

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07006

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Pyrene	34.28	34.01	99.2	10.1		30	50 - 130
2,4,6-Trichlorophenol	70.70	55.91	79.1	1.35		30	50 - 115
2,4,5-Trichlorophenol	70.70	63.76	90.2	7.61		30	50 - 110

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K02001 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0848	1210292-07	11/02/12 08:37	1,080.00	1.00
GW0849	1210292-09	11/02/12 08:37	1,000.00	1.00
GW0850	1210292-11	11/02/12 08:37	1,000.00	1.00
Blank	2K02001-BLK1	11/02/12 08:37	1,000.00	1.00
LCS	2K02001-BS1	11/02/12 08:37	1,000.00	1.00
GW0849	2K02001-MS1	11/02/12 08:37	1,000.00	1.00
GW0849	2K02001-MSD1	11/02/12 08:37	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K05004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0786	1210292-01	11/05/12 14:30	1,000.00	1.00
GW0787	1210292-03	11/05/12 14:30	1,000.00	1.00
GW0788	1210292-05	11/05/12 14:30	1,000.00	1.00
Blank	2K05004-BLK1	11/05/12 14:30	1,000.00	1.00
LCS	2K05004-BS1	11/05/12 14:30	1,000.00	1.00
LCS Dup	2K05004-BSD1	11/05/12 14:30	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K07006 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0802	1211036-07	11/07/12 09:45	1,080.00	1.00
GW0803	1211036-09	11/07/12 09:45	1,080.00	1.00
GW0804	1211036-11	11/07/12 09:45	1,080.00	1.00
GW0812	1211036-13	11/07/12 09:45	1,000.00	1.00
GW0813	1211036-15	11/07/12 09:45	1,000.00	1.00
GW0814	1211036-17	11/07/12 09:45	1,000.00	1.00
GW0832	1211036-19	11/07/12 09:45	1,000.00	1.00
Blank	2K07006-BLK1	11/07/12 09:45	1,000.00	1.00
LCS	2K07006-BS1	11/07/12 09:45	1,000.00	1.00
GW0813	2K07006-MS1	11/07/12 09:45	1,000.00	1.00
GW0832	2K07006-MS2	11/07/12 09:45	1,000.00	1.00
GW0813	2K07006-MSD1	11/07/12 09:45	1,000.00	1.00
GW0832	2K07006-MSD2	11/07/12 09:45	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K08004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0755	1211036-01	11/08/12 09:35	1,020.00	1.00
GW0762	1211036-03	11/08/12 09:35	1,020.00	1.00
GW0763	1211036-05	11/08/12 09:35	1,040.00	1.00
GW0833	1211036-21	11/08/12 09:35	1,000.00	1.00
Blank	2K08004-BLK1	11/08/12 09:35	1,000.00	1.00
LCS	2K08004-BS1	11/08/12 09:35	1,000.00	1.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K02001-BLK1 File ID: K02001B1.D

Sampled: Prepared: Analyzed: 11/16/12 17:31

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K02001 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K02001-BLK1 File ID: K02001B1.D

Sampled: Prepared: Analyzed: 11/16/12 17:31

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K02001 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	UX
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	31.75	63.5	50 - 110	
2-Fluorophenol	100.0	33.90	33.9	20 - 110	
Nitrobenzene-d5	50.00	31.48	63.0	40 - 110	
Phenol-d6	100.0	19.07	19.1	0 - 110	
Terphenyl-d14	50.00	36.50	73.0	50 - 135	
2,4,6-Tribromophenol	100.0	69.89	69.9	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K02001-BS1 | File ID: K02001L1.D

Sampled: | Prepared: | Analyzed: 11/16/12 17:58

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2K02001 | Sequence: 2K32413 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**26.91**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**28.97**	1.25	2.50	5.00	
98-86-2	Acetophenone	**33.03**	1.25	2.50	5.00	
120-12-7	Anthracene	**31.34**	1.25	2.50	5.00	
1912-24-9	Atrazine	**33.50**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**35.63**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**31.21**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**31.46**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**30.95**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**31.98**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**31.32**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**33.64**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**31.58**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**34.61**	1.25	2.50	5.00	
105-60-2	Caprolactam	**7.418**	1.25	2.50	5.00	X
86-74-8	Carbazole	**33.47**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**52.04**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**28.01**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**31.80**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**31.06**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**31.62**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**26.62**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**39.76**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**27.95**	1.25	2.50	5.00	
218-01-9	Chrysene	**31.88**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**32.20**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**29.32**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**33.30**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**33.15**	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	**42.68**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**28.60**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**49.46**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**30.08**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**45.40**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**34.70**	8.33	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	**30.75**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**30.65**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**36.37**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K02001-BS1 | File ID: K02001L1.D

Sampled: | Prepared: | Analyzed: 11/16/12 17:58

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2K02001 | Sequence: 2K32413 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**31.70**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**35.51**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**31.64**	1.25	2.50	5.00	
86-73-7	Fluorene	**28.16**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**29.89**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**25.75**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**19.53**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**23.25**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**31.12**	1.25	2.50	5.00	
78-59-1	Isophorone	**28.10**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**27.43**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**27.04**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**43.99**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**40.01**	1.25	2.50	5.00	
91-20-3	Naphthalene	**28.03**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**32.57**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**30.36**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**32.37**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**28.66**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**12.61**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**46.70**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**27.50**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**29.88**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**39.66**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**31.14**	1.25	2.50	5.00	
108-95-2	Phenol	**16.04**	1.25	2.50	5.00	
129-00-0	Pyrene	**33.31**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**38.93**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**43.04**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	37.31	74.6	50 - 110	
2-Fluorophenol	100.0	30.80	30.8	20 - 110	
Nitrobenzene-d5	50.00	37.83	75.7	40 - 110	
Phenol-d6	100.0	20.98	21.0	0 - 110	
Terphenyl-d14	50.00	42.70	85.4	50 - 135	
2,4,6-Tribromophenol	100.0	62.70	62.7	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K02001-MS1 File ID: 1029209M.D

Sampled: Prepared: Analyzed: 11/16/12 20:16

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K02001 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**30.45**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**33.51**	1.25	2.50	5.00	
98-86-2	Acetophenone	**37.13**	1.25	2.50	5.00	
120-12-7	Anthracene	**35.79**	1.25	2.50	5.00	
1912-24-9	Atrazine	**37.81**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**39.49**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**36.46**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**35.73**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**41.80**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**37.25**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**30.47**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**36.53**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**35.38**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**41.43**	1.25	2.50	5.00	
105-60-2	Caprolactam	**8.786**	1.25	2.50	5.00	X
86-74-8	Carbazole	**38.23**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**50.94**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**28.46**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**34.40**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**33.92**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**34.89**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**31.10**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**38.15**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**32.41**	1.25	2.50	5.00	
218-01-9	Chrysene	**35.81**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**36.76**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**33.61**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**38.59**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**35.33**	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	**39.05**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**33.36**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**52.39**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**34.25**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**35.12**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**28.81**	8.33	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	**34.93**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**35.49**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**41.83**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K02001-MS1 File ID: 1029209M.D

Sampled: Prepared: Analyzed: 11/16/12 20:16

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K02001 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**35.25**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**40.44**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**37.46**	1.25	2.50	5.00	
86-73-7	Fluorene	**32.41**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**35.37**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**30.91**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**24.53**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**29.28**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**35.92**	1.25	2.50	5.00	
78-59-1	Isophorone	**31.19**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**30.98**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**30.70**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**45.11**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**38.87**	1.25	2.50	5.00	
91-20-3	Naphthalene	**32.28**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**36.20**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**35.33**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**36.28**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**31.28**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**9.587**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**42.57**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**30.64**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**34.78**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**37.73**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**35.74**	1.25	2.50	5.00	
108-95-2	Phenol	**14.47**	1.25	2.50	5.00	
129-00-0	Pyrene	**37.50**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**33.39**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**39.64**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	41.15	82.3	50 - 110	
2-Fluorophenol	100.0	23.61	23.6	20 - 110	
Nitrobenzene-d5	50.00	40.69	81.4	40 - 110	
Phenol-d6	100.0	19.01	19.0	0 - 110	
Terphenyl-d14	50.00	48.47	96.9	50 - 135	
2,4,6-Tribromophenol	100.0	57.03	57.0	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K02001-MSD1 File ID: 1029209S.D

Sampled: Prepared: Analyzed: 11/16/12 20:44

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K02001 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**32.69**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**35.27**	1.25	2.50	5.00	
98-86-2	Acetophenone	**38.22**	1.25	2.50	5.00	
120-12-7	Anthracene	**37.80**	1.25	2.50	5.00	
1912-24-9	Atrazine	**41.12**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**40.42**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**38.35**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**37.98**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**38.75**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**38.23**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**35.11**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**39.30**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**37.07**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**43.70**	1.25	2.50	5.00	
105-60-2	Caprolactam	**10.66**	1.25	2.50	5.00	X
86-74-8	Carbazole	**40.07**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**63.30**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**31.62**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**37.84**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**35.86**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**35.50**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**34.07**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**58.75**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**35.41**	1.25	2.50	5.00	
218-01-9	Chrysene	**38.45**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**39.22**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**35.94**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**40.38**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**37.86**	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	**62.86**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**35.60**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**55.92**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**36.02**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**47.87**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**35.68**	8.33	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	**37.95**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**37.12**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**44.52**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K02001-MSD1 File ID: 1029209S.D

Sampled: Prepared: Analyzed: 11/16/12 20:44

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K02001 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**37.41**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**43.63**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**38.94**	1.25	2.50	5.00	
86-73-7	Fluorene	**34.68**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**37.66**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**33.22**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**26.23**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**29.49**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**37.77**	1.25	2.50	5.00	
78-59-1	Isophorone	**33.55**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**33.12**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**32.93**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**49.43**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**44.01**	1.25	2.50	5.00	
91-20-3	Naphthalene	**34.84**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**39.03**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**36.78**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**38.55**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**33.40**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**12.16**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**70.59**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**31.96**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**35.49**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**54.88**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**37.70**	1.25	2.50	5.00	
108-95-2	Phenol	**19.34**	1.25	2.50	5.00	
129-00-0	Pyrene	**40.20**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**53.04**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**63.41**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	44.43	88.9	50 - 110	
2-Fluorophenol	100.0	39.98	40.0	20 - 110	
Nitrobenzene-d5	50.00	44.12	88.2	40 - 110	
Phenol-d6	100.0	25.24	25.2	0 - 110	
Terphenyl-d14	50.00	50.37	101	50 - 135	
2,4,6-Tribromophenol	100.0	88.51	88.5	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K05004-BLK1 File ID: K05004B1.D

Sampled: Prepared: Analyzed: 11/16/12 23:02

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K05004 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	UQ
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	UQ
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	UQ
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	UQ
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	UQ
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	UQ
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	UQ
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	UQ
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	UQ
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	UQ
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UQ
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	UQ
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	UQ
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K05004-BLK1 File ID: K05004B1.D

Sampled: Prepared: Analyzed: 11/16/12 23:02

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K05004 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	UQ
206-44-0	Fluoranthene		1.25	2.50	5.00	UQ
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	UQ
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	UQ
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	UQ
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	UQ
88-75-5	2-Nitrophenol		1.25	2.50	5.00	UXQ
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	44.95	89.9	50 - 110	
2-Fluorophenol	100.0	45.14	45.1	20 - 110	
Nitrobenzene-d5	50.00	45.56	91.1	40 - 110	
Phenol-d6	100.0	26.85	26.9	0 - 110	
Terphenyl-d14	50.00	54.28	109	50 - 135	
2,4,6-Tribromophenol	100.0	98.76	98.8	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K05004-BS1 File ID: K05004L1.D

Sampled: Prepared: Analyzed: 11/16/12 23:29

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K05004 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**33.84**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**36.26**	1.25	2.50	5.00	
98-86-2	Acetophenone	**34.26**	1.25	2.50	5.00	
120-12-7	Anthracene	**40.16**	1.25	2.50	5.00	
1912-24-9	Atrazine	**33.84**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**38.45**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**40.49**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**40.13**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**39.66**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**41.58**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**38.79**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**34.05**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**40.15**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**45.24**	1.25	2.50	5.00	
105-60-2	Caprolactam	**7.055**	1.25	2.50	5.00	X
86-74-8	Carbazole	**42.53**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**69.01**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**32.07**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**39.61**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**38.66**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**37.91**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**33.53**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**63.72**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**35.46**	1.25	2.50	5.00	
218-01-9	Chrysene	**40.86**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**41.99**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**37.23**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**42.59**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**40.38**	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	**70.67**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**36.00**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**59.15**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**37.77**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**56.16**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**23.79**	8.33	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	**38.50**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**39.49**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**47.08**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K05004-BS1 | File ID: K05004L1.D

Sampled: | Prepared: | Analyzed: 11/16/12 23:29

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2K05004 | Sequence: 2K32413 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**40.29**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**45.22**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**41.25**	1.25	2.50	5.00	
86-73-7	Fluorene	**35.93**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**38.66**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**30.92**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**22.73**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**28.25**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**40.26**	1.25	2.50	5.00	
78-59-1	Isophorone	**35.14**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**33.33**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**32.65**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**55.29**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**49.04**	1.25	2.50	5.00	
91-20-3	Naphthalene	**34.58**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**42.46**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**38.12**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**40.37**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**35.30**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**13.40**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**82.67**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**35.71**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**37.25**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**65.56**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**40.15**	1.25	2.50	5.00	
108-95-2	Phenol	**22.83**	1.25	2.50	5.00	
129-00-0	Pyrene	**41.59**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**66.49**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**75.72**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	46.01	92.0	50 - 110	
2-Fluorophenol	100.0	51.30	51.3	20 - 110	
Nitrobenzene-d5	50.00	47.16	94.3	40 - 110	
Phenol-d6	100.0	30.28	30.3	0 - 110	
Terphenyl-d14	50.00	53.16	106	50 - 135	
2,4,6-Tribromophenol	100.0	103.4	103	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K05004-BSD1 File ID: K05004L2.D

Sampled: Prepared: Analyzed: 11/16/12 23:57

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K05004 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**34.49**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**37.12**	1.25	2.50	5.00	
98-86-2	Acetophenone	**34.66**	1.25	2.50	5.00	
120-12-7	Anthracene	**40.17**	1.25	2.50	5.00	
1912-24-9	Atrazine	**34.48**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**39.59**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**40.96**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**40.08**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**39.98**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**41.10**	1.25	2.50	5.00	
65-85-0	Benzoic acid	**12.77**	12.5	50.0	100	J
207-08-9	Benzo(k)fluoranthene	**40.06**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**34.29**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**39.99**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**46.78**	1.25	2.50	5.00	
105-60-2	Caprolactam	**7.594**	1.25	2.50	5.00	X
86-74-8	Carbazole	**41.93**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**68.95**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**33.13**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**40.53**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**39.25**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**38.77**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**34.39**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**66.07**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**36.27**	1.25	2.50	5.00	
218-01-9	Chrysene	**41.30**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**42.33**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**37.83**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**42.25**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**41.65**	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	**72.07**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**36.60**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**63.87**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**38.81**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**86.75**	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	**85.43**	8.33	25.0	50.0	
121-14-2	2,4-Dinitrotoluene	**40.60**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**39.84**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**46.94**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K05004-BSD1 File ID: K05004L2.D

Sampled: Prepared: Analyzed: 11/16/12 23:57

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K05004 Sequence: 2K32413 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**39.88**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**46.06**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**40.86**	1.25	2.50	5.00	
86-73-7	Fluorene	**36.42**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**39.72**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**31.92**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**24.37**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**28.58**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**40.88**	1.25	2.50	5.00	
78-59-1	Isophorone	**36.74**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**34.96**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**34.35**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**55.17**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**49.93**	1.25	2.50	5.00	
91-20-3	Naphthalene	**35.25**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**44.60**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**38.97**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**41.58**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**35.57**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**22.91**	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	**82.29**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**34.92**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**37.79**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**80.34**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**39.69**	1.25	2.50	5.00	
108-95-2	Phenol	**22.61**	1.25	2.50	5.00	
129-00-0	Pyrene	**42.24**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**71.59**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**76.25**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	46.75	93.5	50 - 110	
2-Fluorophenol	100.0	51.59	51.6	20 - 110	
Nitrobenzene-d5	50.00	47.83	95.7	40 - 110	
Phenol-d6	100.0	29.73	29.7	0 - 110	
Terphenyl-d14	50.00	54.36	109	50 - 135	
2,4,6-Tribromophenol	100.0	104.9	105	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K07006-BLK1 File ID: K07006B1.D

Sampled: Prepared: Analyzed: 11/13/12 19:48

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	UX
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	UX
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	UX

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K07006-BLK1 File ID: K07006B1.D

Sampled: Prepared: Analyzed: 11/13/12 19:48

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	UX
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	40.98	82.0	50 - 110	
2-Fluorophenol	100.0	39.30	39.3	20 - 110	
Nitrobenzene-d5	50.00	41.04	82.1	40 - 110	
Phenol-d6	100.0	22.63	22.6	0 - 110	
Terphenyl-d14	50.00	50.55	101	50 - 135	X
2,4,6-Tribromophenol	100.0	87.89	87.9	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K07006-BS1 | File ID: K07006L1.D

Sampled: | Prepared: | Analyzed: 11/13/12 20:15

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2K07006 | Sequence: 2K31903 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**27.28**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**29.41**	1.25	2.50	5.00	
98-86-2	Acetophenone	**31.48**	1.25	2.50	5.00	
120-12-7	Anthracene	**31.32**	1.25	2.50	5.00	
1912-24-9	Atrazine	**32.50**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**34.21**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**32.93**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**31.90**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**32.28**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**33.85**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**32.73**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**31.52**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**32.61**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**38.63**	1.25	2.50	5.00	
105-60-2	Caprolactam	**6.790**	1.25	2.50	5.00	X
86-74-8	Carbazole	**37.66**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**59.30**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**32.36**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**32.06**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**30.79**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**30.61**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**26.38**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**55.46**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**29.33**	1.25	2.50	5.00	
218-01-9	Chrysene	**32.95**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**33.69**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**29.93**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**35.17**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**33.39**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**60.80**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**29.99**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**51.81**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**31.37**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**70.07**	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	**56.86**	8.33	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	**31.51**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**30.68**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**39.91**	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K07006-BS1 | File ID: K07006L1.D

Sampled: | Prepared: | Analyzed: 11/13/12 20:15

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2K07006 | Sequence: 2K31903 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**34.67**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**38.64**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**33.09**	1.25	2.50	5.00	
86-73-7	Fluorene	**29.73**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**31.21**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**23.07**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**22.00**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**20.98**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**32.32**	1.25	2.50	5.00	
78-59-1	Isophorone	**29.21**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**28.94**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**25.57**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**46.50**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**41.76**	1.25	2.50	5.00	
91-20-3	Naphthalene	**27.13**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**38.63**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**35.72**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**35.06**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**27.39**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**17.25**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**70.33**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**28.93**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**30.40**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**65.38**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**31.95**	1.25	2.50	5.00	
108-95-2	Phenol	**19.65**	1.25	2.50	5.00	
129-00-0	Pyrene	**34.50**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**59.37**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**65.03**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	42.62	85.2	50 - 110	
2-Fluorophenol	100.0	46.41	46.4	20 - 110	
Nitrobenzene-d5	50.00	42.23	84.5	40 - 110	
Phenol-d6	100.0	26.50	26.5	0 - 110	
Terphenyl-d14	50.00	51.06	102	50 - 135	X
2,4,6-Tribromophenol	100.0	97.93	97.9	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K07006-MS1 File ID: 1103615M.D

Sampled: Prepared: Analyzed: 11/14/12 02:13

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**25.81**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**27.80**	1.25	2.50	5.00	
98-86-2	Acetophenone	**28.86**	1.25	2.50	5.00	
120-12-7	Anthracene	**28.76**	1.25	2.50	5.00	
1912-24-9	Atrazine	**28.99**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**32.01**	1.25	2.50	5.00	
92-87-5	Benzidine	**21.37**	12.5	50.0	100	XJ
56-55-3	Benzo(a)anthracene	**30.16**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**29.22**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**29.32**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**31.06**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**31.17**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**28.32**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**29.74**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**35.53**	1.25	2.50	5.00	
105-60-2	Caprolactam	**5.860**	1.25	2.50	5.00	X
86-74-8	Carbazole	**34.37**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**53.81**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**29.95**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**30.03**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**28.31**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**28.48**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**25.11**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**51.54**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**27.39**	1.25	2.50	5.00	
218-01-9	Chrysene	**29.86**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**30.94**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**27.65**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**32.19**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**32.92**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**57.12**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**26.96**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**49.99**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**28.56**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**54.71**	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	**34.62**	8.33	25.0	50.0	XJ
121-14-2	2,4-Dinitrotoluene	**27.75**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**28.42**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**36.52**	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K07006-MS1 File ID: 1103615M.D

Sampled: Prepared: Analyzed: 11/14/12 02:13

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**31.15**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**34.81**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**30.49**	1.25	2.50	5.00	
86-73-7	Fluorene	**27.36**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**28.95**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**23.76**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**22.16**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**21.26**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**28.85**	1.25	2.50	5.00	
78-59-1	Isophorone	**27.75**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**27.47**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**25.42**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**44.73**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**39.41**	1.25	2.50	5.00	
91-20-3	Naphthalene	**26.85**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**35.80**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**32.29**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**31.79**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**25.97**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**15.13**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**64.62**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**25.92**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**28.01**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**56.59**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**28.83**	1.25	2.50	5.00	
108-95-2	Phenol	**18.29**	1.25	2.50	5.00	
129-00-0	Pyrene	**31.21**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**53.90**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**58.08**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	39.64	79.3	50 - 110	
2-Fluorophenol	100.0	44.52	44.5	20 - 110	
Nitrobenzene-d5	50.00	39.71	79.4	40 - 110	
Phenol-d6	100.0	25.40	25.4	0 - 110	
Terphenyl-d14	50.00	46.86	93.7	50 - 135	X
2,4,6-Tribromophenol	100.0	88.15	88.2	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K07006-MS2 File ID: 1103619M.D

Sampled: Prepared: Analyzed: 11/14/12 03:08

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**25.51**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**27.27**	1.25	2.50	5.00	
98-86-2	Acetophenone	**28.05**	1.25	2.50	5.00	
120-12-7	Anthracene	**27.61**	1.25	2.50	5.00	
1912-24-9	Atrazine	**28.68**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**31.81**	1.25	2.50	5.00	
92-87-5	Benzidine	**12.65**	12.5	50.0	100	XJ
56-55-3	Benzo(a)anthracene	**29.27**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**28.47**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**28.84**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**30.03**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**29.05**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**29.13**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**29.42**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**33.95**	1.25	2.50	5.00	
105-60-2	Caprolactam	**5.670**	1.25	2.50	5.00	X
86-74-8	Carbazole	**33.66**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**53.47**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**27.21**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**28.55**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**28.20**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**27.31**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**25.06**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**51.44**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**26.66**	1.25	2.50	5.00	
218-01-9	Chrysene	**28.95**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**29.50**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**27.25**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**31.45**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**32.73**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**56.03**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**26.30**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**47.22**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**28.16**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**61.43**	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	**46.25**	8.33	25.0	50.0	XJ
121-14-2	2,4-Dinitrotoluene	**27.72**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**27.45**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**35.83**	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K07006-MS2 File ID: 1103619M.D

Sampled: Prepared: Analyzed: 11/14/12 03:08

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**30.76**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**34.03**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**29.54**	1.25	2.50	5.00	
86-73-7	Fluorene	**26.74**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**27.32**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**23.93**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**22.97**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**20.39**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**28.29**	1.25	2.50	5.00	
78-59-1	Isophorone	**26.51**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**27.45**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**24.73**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**42.81**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**38.76**	1.25	2.50	5.00	
91-20-3	Naphthalene	**26.25**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**33.81**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**30.84**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**32.76**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**25.46**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**17.63**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**63.51**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**25.76**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**26.02**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**57.96**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**28.65**	1.25	2.50	5.00	
108-95-2	Phenol	**18.18**	1.25	2.50	5.00	
129-00-0	Pyrene	**30.73**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**55.16**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**59.09**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	39.09	78.2	50 - 110	
2-Fluorophenol	100.0	43.61	43.6	20 - 110	
Nitrobenzene-d5	50.00	38.60	77.2	40 - 110	
Phenol-d6	100.0	25.13	25.1	0 - 110	
Terphenyl-d14	50.00	46.04	92.1	50 - 135	X
2,4,6-Tribromophenol	100.0	87.17	87.2	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K07006-MSD1 File ID: 1103615S.D

Sampled: Prepared: Analyzed: 11/14/12 02:41

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**13.14**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**14.39**	1.25	2.50	5.00	
98-86-2	Acetophenone	**14.86**	1.25	2.50	5.00	
120-12-7	Anthracene	**15.43**	1.25	2.50	5.00	
1912-24-9	Atrazine	**16.33**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**16.23**	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene	**16.12**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**15.40**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**16.52**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**16.18**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**14.89**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**15.55**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**15.09**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**17.91**	1.25	2.50	5.00	
105-60-2	Caprolactam	**4.104**	1.25	2.50	5.00	XJ
86-74-8	Carbazole	**18.93**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**28.34**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**28.04**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**15.45**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**15.13**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**14.34**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**12.95**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**24.22**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**13.57**	1.25	2.50	5.00	
218-01-9	Chrysene	**16.80**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**16.16**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**14.53**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**17.78**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**18.95**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**25.51**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**14.93**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**27.15**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**15.35**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**14.28**	5.00	10.0	20.0	XJ
51-28-5	2,4-Dinitrophenol	**9.279**	8.33	25.0	50.0	XJ
121-14-2	2,4-Dinitrotoluene	**14.62**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**14.00**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**19.24**	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K07006-MSD1 File ID: 1103615S.D

Sampled: Prepared: Analyzed: 11/14/12 02:41

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**16.52**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**18.25**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**16.58**	1.25	2.50	5.00	
86-73-7	Fluorene	**14.16**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**14.70**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**11.58**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**10.07**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**9.825**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**15.26**	1.25	2.50	5.00	
78-59-1	Isophorone	**14.19**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**13.88**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**12.59**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**24.33**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**21.61**	1.25	2.50	5.00	
91-20-3	Naphthalene	**13.54**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**20.96**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**24.51**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**17.30**	5.00	10.0	20.0	J
98-95-3	Nitrobenzene	**12.83**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol	**27.43**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**13.90**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**13.84**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**12.61**	5.00	10.0	20.0	J
85-01-8	Phenanthrene	**15.59**	1.25	2.50	5.00	
108-95-2	Phenol	**10.80**	1.25	2.50	5.00	
129-00-0	Pyrene	**16.59**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**17.91**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**23.74**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	21.13	42.3	50 - 110	
2-Fluorophenol	100.0	17.84	17.8	20 - 110	
Nitrobenzene-d5	50.00	20.48	41.0	40 - 110	
Phenol-d6	100.0	13.51	13.5	0 - 110	
Terphenyl-d14	50.00	30.88	61.8	50 - 135	X
2,4,6-Tribromophenol	100.0	36.62	36.6	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K07006-MSD2 File ID: 1103619S.D

Sampled: Prepared: Analyzed: 11/14/12 03:36

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**29.07**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**30.90**	1.25	2.50	5.00	
98-86-2	Acetophenone	**32.27**	1.25	2.50	5.00	
120-12-7	Anthracene	**31.57**	1.25	2.50	5.00	
1912-24-9	Atrazine	**33.42**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**36.50**	1.25	2.50	5.00	
92-87-5	Benzidine	**22.13**	12.5	50.0	100	XJ
56-55-3	Benzo(a)anthracene	**33.13**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**31.90**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**37.25**	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	**33.65**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**28.81**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**32.66**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**33.86**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**38.35**	1.25	2.50	5.00	
105-60-2	Caprolactam	**6.456**	1.25	2.50	5.00	X
86-74-8	Carbazole	**38.40**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**59.31**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**31.72**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**32.78**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**32.62**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**31.57**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**28.62**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**58.08**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**30.43**	1.25	2.50	5.00	
218-01-9	Chrysene	**31.69**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**33.63**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**30.64**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**35.80**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**35.47**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**62.33**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**30.27**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**49.57**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**32.12**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**51.41**	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	**29.82**	8.33	25.0	50.0	XJ
121-14-2	2,4-Dinitrotoluene	**31.70**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**32.38**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**40.30**	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K07006-MSD2 File ID: 1103619S.D

Sampled: Prepared: Analyzed: 11/14/12 03:36

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K07006 Sequence: 2K31903 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**33.46**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**38.19**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**33.43**	1.25	2.50	5.00	
86-73-7	Fluorene	**30.57**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**31.29**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**27.91**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**26.36**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**23.92**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**31.46**	1.25	2.50	5.00	
78-59-1	Isophorone	**29.61**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**30.34**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**27.99**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**49.93**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**43.60**	1.25	2.50	5.00	
91-20-3	Naphthalene	**29.11**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**39.83**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**36.33**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**35.71**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**28.71**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**14.03**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**70.62**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**28.81**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**30.28**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**54.43**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**32.38**	1.25	2.50	5.00	
108-95-2	Phenol	**20.58**	1.25	2.50	5.00	
129-00-0	Pyrene	**34.01**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**55.91**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**63.76**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	43.98	88.0	50 - 110	
2-Fluorophenol	100.0	46.90	46.9	20 - 110	
Nitrobenzene-d5	50.00	43.81	87.6	40 - 110	
Phenol-d6	100.0	28.33	28.3	0 - 110	
Terphenyl-d14	50.00	51.06	102	50 - 135	X
2,4,6-Tribromophenol	100.0	94.56	94.6	40 - 125	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K08004-BLK1 File ID: K08004B1.D

Sampled: Prepared: Analyzed: 11/14/12 13:07

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	50.0	100	UX
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	UX
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	UX
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	UX
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	UX
51-28-5	2,4-Dinitrophenol		8.33	25.0	50.0	U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 2K08004-BLK1 File ID: K08004B1.D

Sampled: Prepared: Analyzed: 11/14/12 13:07

Solids: Preparation: EXT_3510 Dilution:

Batch: 2K08004 Sequence: 2K32014 Calibration: 2261001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	5.00	10.0	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	UX
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	45.87	91.7	50 - 110	
2-Fluorophenol	100.0	44.62	44.6	20 - 110	
Nitrobenzene-d5	50.00	46.57	93.1	40 - 110	
Phenol-d6	100.0	25.22	25.2	0 - 110	
Terphenyl-d14	50.00	53.80	108	50 - 135	X
2,4,6-Tribromophenol	100.0	101.4	101	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K08004-BS1 | File ID: K08004L1.D

Sampled: | Prepared: | Analyzed: 11/14/12 13:34

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2K08004 | Sequence: 2K32014 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	**18.76**	1.25	2.50	5.00	
208-96-8	Acenaphthylene	**20.91**	1.25	2.50	5.00	
98-86-2	Acetophenone	**23.55**	1.25	2.50	5.00	
120-12-7	Anthracene	**21.23**	1.25	2.50	5.00	
1912-24-9	Atrazine	**23.29**	1.25	2.50	5.00	
100-52-7	Benzaldehyde	**25.45**	1.25	2.50	5.00	
92-87-5	Benzidine	**18.62**	12.5	50.0	100	XJ
56-55-3	Benzo(a)anthracene	**22.58**	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	**22.08**	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	**23.90**	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	**22.53**	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	50.0	100	U
207-08-9	Benzo(k)fluoranthene	**20.77**	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	**22.31**	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	**21.32**	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	**24.90**	1.25	2.50	5.00	
105-60-2	Caprolactam	**5.699**	1.25	2.50	5.00	X
86-74-8	Carbazole	**26.17**	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	**44.72**	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	**33.44**	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	**23.88**	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	**22.83**	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	**22.03**	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	**19.12**	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	**43.95**	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	**20.36**	1.25	2.50	5.00	
218-01-9	Chrysene	**22.26**	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	**22.82**	1.25	2.50	5.00	
132-64-9	Dibenzofuran	**20.70**	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	**24.40**	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	**25.17**	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	**46.12**	1.25	2.50	5.00	
84-66-2	Diethylphthalate	**20.40**	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	**40.93**	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	**21.79**	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	**47.66**	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	**39.44**	8.33	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	**21.13**	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	**21.67**	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	**26.68**	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_069

Client: Shaw E & I (I700) | Project: Kirtland AFB 2011

Matrix: | Laboratory ID: 2K08004-BS1 | File ID: K08004L1.D

Sampled: | Prepared: | Analyzed: 11/14/12 13:34

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 2K08004 | Sequence: 2K32014 | Calibration: 2261001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	**23.52**	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	**25.18**	1.25	2.50	5.00	
206-44-0	Fluoranthene	**22.75**	1.25	2.50	5.00	
86-73-7	Fluorene	**20.13**	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	**20.67**	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	**16.69**	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	**15.58**	1.25	5.00	10.0	
67-72-1	Hexachloroethane	**15.33**	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	**21.52**	1.25	2.50	5.00	
78-59-1	Isophorone	**21.52**	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	**20.36**	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	**18.41**	1.25	2.50	5.00	
95-48-7	2-Methylphenol	**38.92**	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	**34.06**	1.25	2.50	5.00	
91-20-3	Naphthalene	**20.25**	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	**29.50**	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	**32.45**	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	**25.79**	5.00	10.0	20.0	
98-95-3	Nitrobenzene	**20.41**	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	**14.40**	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	**50.18**	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	**19.62**	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	**21.46**	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	**41.19**	5.00	10.0	20.0	
85-01-8	Phenanthrene	**22.16**	1.25	2.50	5.00	
108-95-2	Phenol	**16.51**	1.25	2.50	5.00	
129-00-0	Pyrene	**22.72**	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	**41.81**	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	**47.24**	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	30.40	60.8	50 - 110	
2-Fluorophenol	100.0	37.68	37.7	20 - 110	
Nitrobenzene-d5	50.00	30.67	61.3	40 - 110	
Phenol-d6	100.0	21.73	21.7	0 - 110	
Terphenyl-d14	50.00	37.99	76.0	50 - 135	X
2,4,6-Tribromophenol	100.0	66.91	66.9	40 - 125	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/11/12
Instrument ID:	MS-BNA3	Injection Time:	10:14
Sequence:	2I25803	Lab Sample ID:	2I25803-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	39.9	PASS
68	Less than 2% of 69	0.427	PASS
69	Less than 200% of 198	45	PASS
70	Less than 2% of 69	0.427	PASS
127	40 - 60% of 198	48.7	PASS
197	Less than 1% of 198	0.112	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.32	PASS
275	10 - 30% of 198	23.4	PASS
365	1 - 200% of 198	2.18	PASS
441	0.001 - 100% of 443	80	PASS
442	40 - 200% of 198	79.1	PASS
443	17 - 23% of 442	18.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	09/12/12
Instrument ID:	MS-BNA3	Injection Time:	15:25
Sequence:	2I25803	Lab Sample ID:	2I25803-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	38.9	PASS
68	Less than 2% of 69	1.04	PASS
69	Less than 200% of 198	42.9	PASS
70	Less than 2% of 69	0.427	PASS
127	40 - 60% of 198	48.8	PASS
197	Less than 1% of 198	0.0543	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.99	PASS
275	10 - 30% of 198	22.3	PASS
365	1 - 200% of 198	2.57	PASS
441	0.001 - 100% of 443	68.9	PASS
442	40 - 200% of 198	78.2	PASS
443	17 - 23% of 442	20.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUNE.D	Injection Date:	11/13/12
Instrument ID:	MS-BNA3	Injection Time:	18:29
Sequence:	2K31903	Lab Sample ID:	2K31903-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	34.9	PASS
68	Less than 2% of 69	0.94	PASS
69	Less than 200% of 198	40.6	PASS
70	Less than 2% of 69	0.769	PASS
127	40 - 60% of 198	43.3	PASS
197	Less than 1% of 198	0.208	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.92	PASS
275	10 - 30% of 198	25.4	PASS
365	1 - 200% of 198	2.69	PASS
441	0.001 - 100% of 443	71.3	PASS
442	40 - 200% of 198	80.7	PASS
443	17 - 23% of 442	20.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	11/14/12
Instrument ID:	MS-BNA3	Injection Time:	11:48
Sequence:	2K32014	Lab Sample ID:	2K32014-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	31	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	35.4	PASS
70	Less than 2% of 69	0.731	PASS
127	40 - 60% of 198	45.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	8.03	PASS
275	10 - 30% of 198	23.8	PASS
365	1 - 200% of 198	2.15	PASS
441	0.001 - 100% of 443	66.1	PASS
442	40 - 200% of 198	60	PASS
443	17 - 23% of 442	20.6	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	11/16/12
Instrument ID:	MS-BNA3	Injection Time:	16:13
Sequence:	2K32413	Lab Sample ID:	2K32413-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	37.7	PASS
68	Less than 2% of 69	0.347	PASS
69	Less than 200% of 198	41.8	PASS
70	Less than 2% of 69	0.95	PASS
127	40 - 60% of 198	46.1	PASS
197	Less than 1% of 198	0.091	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.23	PASS
275	10 - 30% of 198	24.8	PASS
365	1 - 200% of 198	2.53	PASS
441	0.001 - 100% of 443	68	PASS
442	40 - 200% of 198	82.8	PASS
443	17 - 23% of 442	20.3	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2I25803	Instrument:	MS-BNA3
Calibration:	2261001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2I25803-TUN1	SEQ-TUN1.D	09/11/12 10:14
Cal Standard	2I25803-CAL1	SEQ-CAL1.D	09/11/12 10:38
Cal Standard	2I25803-CAL2	SEQ-CAL2.D	09/11/12 11:06
Cal Standard	2I25803-CAL3	SEQ-CAL3.D	09/11/12 11:34
Cal Standard	2I25803-CAL4	SEQ-CAL4.D	09/11/12 12:03
Cal Standard	2I25803-CAL5	SEQ-CAL5.D	09/11/12 12:31
Cal Standard	2I25803-CAL6	SEQ-CAL6.D	09/11/12 12:59
Cal Standard	2I25803-CAL7	SEQ-CAL7.D	09/11/12 13:27
Cal Standard	2I25803-CAL8	SEQ-CAL8.D	09/11/12 13:55
Cal Standard	2I25803-CAL9	SEQ-CAL9.D	09/11/12 14:23
Cal Standard	2I25803-CALA	SEQ-CALA.D	09/11/12 14:51
Cal Standard	2I25803-CALB	SEQ-CALB.D	09/11/12 15:20
Cal Standard	2I25803-CALC	SEQ-CALC.D	09/11/12 15:48
Cal Standard	2I25803-CALD	SEQ-CALD.D	09/11/12 16:16
Cal Standard	2I25803-CALE	SEQ-CALE.D	09/11/12 16:44
Cal Standard	2I25803-CALF	SEQ-CALF.D	09/11/12 17:11
Cal Standard	2I25803-CALG	SEQ-CALG.D	09/11/12 17:40
Initial Cal Check	2I25803-ICV1	SEQ-ICV1.D	09/11/12 18:08
Initial Cal Check	2I25803-ICV2	SEQ-ICV2.D	09/11/12 18:36
MS Tune	2I25803-TUN2	SEQ-TUN2.D	09/12/12 15:25
Initial Cal Check	2I25803-ICV3	SEQ-ICV3.D	09/12/12 15:49

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31903	Instrument:	MS-BNA3
Calibration:	2261001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K31903-TUN1	SEQ-TUNE.D	11/13/12 18:29
Calibration Check	2K31903-CCV1	SEQ-CC1E.D	11/13/12 18:52
Calibration Check	2K31903-CCV2	SEQ-CC2E.D	11/13/12 19:20
Blank	2K07006-BLK1	K07006B1.D	11/13/12 19:48
LCS	2K07006-BS1	K07006L1.D	11/13/12 20:15
GW0802	1211036-07	1103607.D	11/13/12 23:01
GW0803	1211036-09	1103609.D	11/13/12 23:28
GW0804	1211036-11	1103611.D	11/13/12 23:55
GW0812	1211036-13	1103613D.D	11/14/12 00:23
GW0813	1211036-15	1103615.D	11/14/12 00:51
GW0814	1211036-17	1103617.D	11/14/12 01:18
GW0832	1211036-19	1103619.D	11/14/12 01:46
GW0813	2K07006-MS1	1103615M.D	11/14/12 02:13
GW0813	2K07006-MSD1	1103615S.D	11/14/12 02:41
GW0832	2K07006-MS2	1103619M.D	11/14/12 03:08
GW0832	2K07006-MSD2	1103619S.D	11/14/12 03:36

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
Calibration:	2261001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K32014-TUN1	SEQ-TUN1.D	11/14/12 11:48
Calibration Check	2K32014-CCV1	SEQ-CCV1.D	11/14/12 12:11
Calibration Check	2K32014-CCV2	SEQ-CCV2.D	11/14/12 12:39
Blank	2K08004-BLK1	K08004B1.D	11/14/12 13:07
LCS	2K08004-BS1	K08004L1.D	11/14/12 13:34
GW0755	1211036-01	1103601.D	11/14/12 14:57
GW0762	1211036-03	1103603D.D	11/14/12 15:25
GW0763	1211036-05	1103605.D	11/14/12 15:52
GW0833	1211036-21	1103621.D	11/14/12 16:20

ANALYSIS SEQUENCE SUMMARY

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32413	Instrument:	MS-BNA3
Calibration:	2261001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2K32413-TUN1	SEQ-TUN1.D	11/16/12 16:13
Calibration Check	2K32413-CCV1	SEQ-CCV1.D	11/16/12 16:35
Calibration Check	2K32413-CCV2	SEQ-CCV2.D	11/16/12 17:03
Blank	2K02001-BLK1	K02001B1.D	11/16/12 17:31
LCS	2K02001-BS1	K02001L1.D	11/16/12 17:58
GW0848	1210292-07	1029207.D	11/16/12 19:21
GW0849	1210292-09	1029209.D	11/16/12 19:48
GW0849	2K02001-MS1	1029209M.D	11/16/12 20:16
GW0849	2K02001-MSD1	1029209S.D	11/16/12 20:44
GW0850	1210292-11	1029211.D	11/16/12 21:12
Blank	2K05004-BLK1	K05004B1.D	11/16/12 23:02
LCS	2K05004-BS1	K05004L1.D	11/16/12 23:29
LCS Dup	2K05004-BSD1	K05004L2.D	11/16/12 23:57
GW0786	1210292-01	1029201.D	11/17/12 00:25
GW0787	1210292-03	1029203.D	11/17/12 00:53
GW0788	1210292-05	1029205.D	11/17/12 01:20

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31903	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K31903-CCV1)			Lab File ID: SEQ-CC1E.D			Analyzed: 11/13/12 18:52			
1,4-Dichlorobenzene-d4	622572	5.528	692783	5.592	90	50 - 200	-0.0640	+/-0.50	
Naphthalene-d8	2176919	7.205	2409624	7.268	90	50 - 200	-0.0630	+/-0.50	
Acenaphthene-d10	1384961	9.441	1479598	9.504	94	50 - 200	-0.0630	+/-0.50	
Phenanthrene-d10	2199336	11.242	2454205	11.305	90	50 - 200	-0.0630	+/-0.50	
Chrysene-d12	2102462	14.543	2419622	14.71	87	50 - 200	-0.1670	+/-0.50	
Perylene-d12	2097046	16.644	2394332	16.987	88	50 - 200	-0.3430	+/-0.50	
Calibration Check (2K31903-CCV2)			Lab File ID: SEQ-CC2E.D			Analyzed: 11/13/12 19:20			
1,4-Dichlorobenzene-d4	660441	5.531	622572	5.528	106	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	2261516	7.197	2176919	7.205	104	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	1429942	9.443	1384961	9.441	103	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2250754	11.244	2199336	11.242	102	50 - 200	0.0020	+/-0.50	
Chrysene-d12	2167437	14.546	2102462	14.543	103	50 - 200	0.0030	+/-0.50	
Perylene-d12	2138246	16.647	2097046	16.644	102	50 - 200	0.0030	+/-0.50	
Blank (2K07006-BLK1)			Lab File ID: K07006B1.D			Analyzed: 11/13/12 19:48			
1,4-Dichlorobenzene-d4	624865	5.532	622572	5.528	100	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2209745	7.198	2176919	7.205	102	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1399462	9.444	1384961	9.441	101	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	2168665	11.245	2199336	11.242	99	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2123436	14.536	2102462	14.543	101	50 - 200	-0.0070	+/-0.50	
Perylene-d12	2094478	16.648	2097046	16.644	100	50 - 200	0.0040	+/-0.50	
LCS (2K07006-BS1)			Lab File ID: K07006L1.D			Analyzed: 11/13/12 20:15			
1,4-Dichlorobenzene-d4	651438	5.532	622572	5.528	105	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2266966	7.198	2176919	7.205	104	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1434351	9.444	1384961	9.441	104	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	2247038	11.245	2199336	11.242	102	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2168344	14.547	2102462	14.543	103	50 - 200	0.0040	+/-0.50	
Perylene-d12	2187563	16.648	2097046	16.644	104	50 - 200	0.0040	+/-0.50	
GW0802 (1211036-07)			Lab File ID: 1103607.D			Analyzed: 11/13/12 23:01			
1,4-Dichlorobenzene-d4	628184	5.529	622572	5.528	101	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2208018	7.196	2176919	7.205	101	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	1380233	9.442	1384961	9.441	100	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	2144446	11.243	2199336	11.242	98	50 - 200	0.0010	+/-0.50	
Chrysene-d12	2155526	14.544	2102462	14.543	103	50 - 200	0.0010	+/-0.50	
Perylene-d12	2105599	16.646	2097046	16.644	100	50 - 200	0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31903	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0803 (1211036-09)			Lab File ID: 1103609.D			Analyzed: 11/13/12 23:28			
1,4-Dichlorobenzene-d4	669086	5.529	622572	5.528	107	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2366853	7.196	2176919	7.205	109	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	1510512	9.442	1384961	9.441	109	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	2266964	11.242	2199336	11.242	103	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2302143	14.544	2102462	14.543	109	50 - 200	0.0010	+/-0.50	
Perylene-d12	2229851	16.645	2097046	16.644	106	50 - 200	0.0010	+/-0.50	
GW0804 (1211036-11)			Lab File ID: 1103611.D			Analyzed: 11/13/12 23:55			
1,4-Dichlorobenzene-d4	614132	5.531	622572	5.528	99	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	2143118	7.198	2176919	7.205	98	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1347020	9.444	1384961	9.441	97	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	2104215	11.245	2199336	11.242	96	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2080668	14.546	2102462	14.543	99	50 - 200	0.0030	+/-0.50	
Perylene-d12	2036132	16.647	2097046	16.644	97	50 - 200	0.0030	+/-0.50	
GW0812 (1211036-13)			Lab File ID: 1103613D.D			Analyzed: 11/14/12 00:23			
1,4-Dichlorobenzene-d4	615899	5.522	622572	5.528	99	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	2108309	7.199	2176919	7.205	97	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	1355181	9.445	1384961	9.441	98	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	2135781	11.246	2199336	11.242	97	50 - 200	0.0040	+/-0.50	
Chrysene-d12	2096286	14.537	2102462	14.543	100	50 - 200	-0.0060	+/-0.50	
Perylene-d12	2029156	16.649	2097046	16.644	97	50 - 200	0.0050	+/-0.50	
GW0813 (1211036-15)			Lab File ID: 1103615.D			Analyzed: 11/14/12 00:51			
1,4-Dichlorobenzene-d4	587645	5.531	622572	5.528	94	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	2103312	7.198	2176919	7.205	97	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1310028	9.444	1384961	9.441	95	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	2029605	11.245	2199336	11.242	92	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2037392	14.546	2102462	14.543	97	50 - 200	0.0030	+/-0.50	
Perylene-d12	1980648	16.647	2097046	16.644	94	50 - 200	0.0030	+/-0.50	
GW0814 (1211036-17)			Lab File ID: 1103617.D			Analyzed: 11/14/12 01:18			
1,4-Dichlorobenzene-d4	620194	5.53	622572	5.528	100	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2160980	7.196	2176919	7.205	99	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	1361307	9.442	1384961	9.441	98	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	2086728	11.243	2199336	11.242	95	50 - 200	0.0010	+/-0.50	
Chrysene-d12	2034682	14.545	2102462	14.543	97	50 - 200	0.0020	+/-0.50	
Perylene-d12	2018593	16.646	2097046	16.644	96	50 - 200	0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31903	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0832 (1211036-19)			Lab File ID: 1103619.D			Analyzed: 11/14/12 01:46			
1,4-Dichlorobenzene-d4	664449	5.522	622572	5.528	107	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	2299396	7.199	2176919	7.205	106	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10	1466128	9.445	1384961	9.441	106	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	2276240	11.245	2199336	11.242	103	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2252255	14.537	2102462	14.543	107	50 - 200	-0.0060	+/-0.50	
Perylene-d12	2187168	16.648	2097046	16.644	104	50 - 200	0.0040	+/-0.50	
Matrix Spike (2K07006-MS1)			Lab File ID: 1103615M.D			Analyzed: 11/14/12 02:13			
1,4-Dichlorobenzene-d4	650118	5.532	622572	5.528	104	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2236930	7.198	2176919	7.205	103	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1425243	9.444	1384961	9.441	103	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	2235690	11.245	2199336	11.242	102	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2169860	14.546	2102462	14.543	103	50 - 200	0.0030	+/-0.50	
Perylene-d12	2150518	16.648	2097046	16.644	103	50 - 200	0.0040	+/-0.50	
Matrix Spike Dup (2K07006-MSD1)			Lab File ID: 1103615S.D			Analyzed: 11/14/12 02:41			
1,4-Dichlorobenzene-d4	594921	5.522	622572	5.528	96	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	2063701	7.198	2176919	7.205	95	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1299907	9.444	1384961	9.441	94	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	2039106	11.245	2199336	11.242	93	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2002530	14.547	2102462	14.543	95	50 - 200	0.0040	+/-0.50	
Perylene-d12	1963934	16.648	2097046	16.644	94	50 - 200	0.0040	+/-0.50	
Matrix Spike (2K07006-MS2)			Lab File ID: 1103619M.D			Analyzed: 11/14/12 03:08			
1,4-Dichlorobenzene-d4	661750	5.53	622572	5.528	106	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2285519	7.197	2176919	7.205	105	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	1437014	9.443	1384961	9.441	104	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2269273	11.244	2199336	11.242	103	50 - 200	0.0020	+/-0.50	
Chrysene-d12	2182035	14.545	2102462	14.543	104	50 - 200	0.0020	+/-0.50	
Perylene-d12	2161520	16.646	2097046	16.644	103	50 - 200	0.0020	+/-0.50	
Matrix Spike Dup (2K07006-MSD2)			Lab File ID: 1103619S.D			Analyzed: 11/14/12 03:36			
1,4-Dichlorobenzene-d4	631344	5.529	622572	5.528	101	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2219531	7.206	2176919	7.205	102	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1376392	9.441	1384961	9.441	99	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	2195496	11.242	2199336	11.242	100	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2134522	14.544	2102462	14.543	102	50 - 200	0.0010	+/-0.50	
Perylene-d12	2131924	16.645	2097046	16.644	102	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K32014-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 11/14/12 12:11			
1,4-Dichlorobenzene-d4	622930	5.529	692783	5.592	90	50 - 200	-0.0630	+/-0.50	
Naphthalene-d8	2206565	7.196	2409624	7.268	92	50 - 200	-0.0720	+/-0.50	
Acenaphthene-d10	1371087	9.442	1479598	9.504	93	50 - 200	-0.0620	+/-0.50	
Phenanthrene-d10	2150822	11.242	2454205	11.305	88	50 - 200	-0.0630	+/-0.50	
Chrysene-d12	2134604	14.544	2419622	14.71	88	50 - 200	-0.1660	+/-0.50	
Perylene-d12	2119920	16.645	2394332	16.987	89	50 - 200	-0.3420	+/-0.50	
Calibration Check (2K32014-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 11/14/12 12:39			
1,4-Dichlorobenzene-d4	643306	5.521	622930	5.529	103	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	2243083	7.198	2206565	7.196	102	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1411814	9.444	1371087	9.442	103	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2207816	11.245	2150822	11.242	103	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2212251	14.536	2134604	14.544	104	50 - 200	-0.0080	+/-0.50	
Perylene-d12	2195092	16.647	2119920	16.645	104	50 - 200	0.0020	+/-0.50	
Blank (2K08004-BLK1)			Lab File ID: K08004B1.D			Analyzed: 11/14/12 13:07			
1,4-Dichlorobenzene-d4	602668	5.529	622930	5.529	97	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2097609	7.195	2206565	7.196	95	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1315063	9.441	1371087	9.442	96	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	2046502	11.242	2150822	11.242	95	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2069467	14.544	2134604	14.544	97	50 - 200	0.0000	+/-0.50	
Perylene-d12	2048535	16.645	2119920	16.645	97	50 - 200	0.0000	+/-0.50	
LCS (2K08004-BS1)			Lab File ID: K08004L1.D			Analyzed: 11/14/12 13:34			
1,4-Dichlorobenzene-d4	636818	5.522	622930	5.529	102	50 - 200	-0.0070	+/-0.50	
Naphthalene-d8	2203804	7.199	2206565	7.196	100	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	1417085	9.445	1371087	9.442	103	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	2182427	11.245	2150822	11.242	101	50 - 200	0.0030	+/-0.50	
Chrysene-d12	2187242	14.537	2134604	14.544	102	50 - 200	-0.0070	+/-0.50	
Perylene-d12	2142341	16.648	2119920	16.645	101	50 - 200	0.0030	+/-0.50	
GW0755 (1211036-01)			Lab File ID: 1103601.D			Analyzed: 11/14/12 14:57			
1,4-Dichlorobenzene-d4	594080	5.521	622930	5.529	95	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	2105835	7.197	2206565	7.196	95	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1353534	9.443	1371087	9.442	99	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	2071166	11.244	2150822	11.242	96	50 - 200	0.0020	+/-0.50	
Chrysene-d12	2105725	14.536	2134604	14.544	99	50 - 200	-0.0080	+/-0.50	
Perylene-d12	2041375	16.647	2119920	16.645	96	50 - 200	0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32014	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0762 (1211036-03)			Lab File ID: 1103603D.D			Analyzed: 11/14/12 15:25			
1,4-Dichlorobenzene-d4	595805	5.53	622930	5.529	96	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2069819	7.196	2206565	7.196	94	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1315930	9.442	1371087	9.442	96	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	2047703	11.243	2150822	11.242	95	50 - 200	0.0010	+/-0.50	
Chrysene-d12	2097697	14.535	2134604	14.544	98	50 - 200	-0.0090	+/-0.50	
Perylene-d12	2043648	16.646	2119920	16.645	96	50 - 200	0.0010	+/-0.50	
GW0763 (1211036-05)			Lab File ID: 1103605.D			Analyzed: 11/14/12 15:52			
1,4-Dichlorobenzene-d4	570755	5.521	622930	5.529	92	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	2042603	7.198	2206565	7.196	93	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1266525	9.444	1371087	9.442	92	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2027489	11.244	2150822	11.242	94	50 - 200	0.0020	+/-0.50	
Chrysene-d12	2033137	14.536	2134604	14.544	95	50 - 200	-0.0080	+/-0.50	
Perylene-d12	2009790	16.647	2119920	16.645	95	50 - 200	0.0020	+/-0.50	
GW0833 (1211036-21)			Lab File ID: 1103621.D			Analyzed: 11/14/12 16:20			
1,4-Dichlorobenzene-d4	531274	5.521	622930	5.529	85	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	1913028	7.198	2206565	7.196	87	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1201111	9.444	1371087	9.442	88	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	1887959	11.245	2150822	11.242	88	50 - 200	0.0030	+/-0.50	
Chrysene-d12	1914971	14.536	2134604	14.544	90	50 - 200	-0.0080	+/-0.50	
Perylene-d12	1834843	16.647	2119920	16.645	87	50 - 200	0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32413	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2K32413-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 11/16/12 16:35			
1,4-Dichlorobenzene-d4	625135	5.528	692783	5.592	90	50 - 200	-0.0640	+/-0.50	
Naphthalene-d8	2188418	7.194	2409624	7.268	91	50 - 200	-0.0740	+/-0.50	
Acenaphthene-d10	1362874	9.44	1479598	9.504	92	50 - 200	-0.0640	+/-0.50	
Phenanthrene-d10	2134435	11.241	2454205	11.305	87	50 - 200	-0.0640	+/-0.50	
Chrysene-d12	2097077	14.543	2419622	14.71	87	50 - 200	-0.1670	+/-0.50	
Perylene-d12	2126723	16.644	2394332	16.987	89	50 - 200	-0.3430	+/-0.50	
Calibration Check (2K32413-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 11/16/12 17:03			
1,4-Dichlorobenzene-d4	613503	5.529	625135	5.528	98	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2192626	7.196	2188418	7.194	100	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1402983	9.442	1362874	9.44	103	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2154865	11.243	2134435	11.241	101	50 - 200	0.0020	+/-0.50	
Chrysene-d12	2086410	14.534	2097077	14.543	99	50 - 200	-0.0090	+/-0.50	
Perylene-d12	2089967	16.645	2126723	16.644	98	50 - 200	0.0010	+/-0.50	
Blank (2K02001-BLK1)			Lab File ID: K02001B1.D			Analyzed: 11/16/12 17:31			
1,4-Dichlorobenzene-d4	778247	5.527	625135	5.528	124	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2755180	7.193	2188418	7.194	126	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1759072	9.439	1362874	9.44	129	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	2693592	11.24	2134435	11.241	126	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	2675693	14.542	2097077	14.543	128	50 - 200	-0.0010	+/-0.50	
Perylene-d12	2690864	16.643	2126723	16.644	127	50 - 200	-0.0010	+/-0.50	
LCS (2K02001-BS1)			Lab File ID: K02001L1.D			Analyzed: 11/16/12 17:58			
1,4-Dichlorobenzene-d4	619680	5.527	625135	5.528	99	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2230428	7.204	2188418	7.194	102	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	1419051	9.44	1362874	9.44	104	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	2201023	11.241	2134435	11.241	103	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2163327	14.542	2097077	14.543	103	50 - 200	-0.0010	+/-0.50	
Perylene-d12	2185998	16.643	2126723	16.644	103	50 - 200	-0.0010	+/-0.50	
GW0848 (1210292-07)			Lab File ID: 1029207.D			Analyzed: 11/16/12 19:21			
1,4-Dichlorobenzene-d4	548786	5.527	625135	5.528	88	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	1911069	7.193	2188418	7.194	87	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1233219	9.439	1362874	9.44	90	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1894316	11.24	2134435	11.241	89	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1861643	14.542	2097077	14.543	89	50 - 200	-0.0010	+/-0.50	
Perylene-d12	1896672	16.643	2126723	16.644	89	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32413	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0849 (1210292-09)			Lab File ID: 1029209.D			Analyzed: 11/16/12 19:48			
1,4-Dichlorobenzene-d4	560898	5.527	625135	5.528	90	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	1972484	7.194	2188418	7.194	90	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1238872	9.44	1362874	9.44	91	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1966859	11.241	2134435	11.241	92	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1979630	14.542	2097077	14.543	94	50 - 200	-0.0010	+/-0.50	
Perylene-d12	1968608	16.643	2126723	16.644	93	50 - 200	-0.0010	+/-0.50	
Matrix Spike (2K02001-MS1)			Lab File ID: 1029209M.D			Analyzed: 11/16/12 20:16			
1,4-Dichlorobenzene-d4	579664	5.526	625135	5.528	93	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	2115484	7.203	2188418	7.194	97	50 - 200	0.0090	+/-0.50	
Acenaphthene-d10	1311631	9.438	1362874	9.44	96	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	2060278	11.239	2134435	11.241	97	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	2048797	14.541	2097077	14.543	98	50 - 200	-0.0020	+/-0.50	
Perylene-d12	2099440	16.642	2126723	16.644	99	50 - 200	-0.0020	+/-0.50	
Matrix Spike Dup (2K02001-MSD1)			Lab File ID: 1029209S.D			Analyzed: 11/16/12 20:44			
1,4-Dichlorobenzene-d4	575187	5.53	625135	5.528	92	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2011537	7.197	2188418	7.194	92	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	1261137	9.443	1362874	9.44	93	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	1993267	11.243	2134435	11.241	93	50 - 200	0.0020	+/-0.50	
Chrysene-d12	1969494	14.545	2097077	14.543	94	50 - 200	0.0020	+/-0.50	
Perylene-d12	2031202	16.646	2126723	16.644	96	50 - 200	0.0020	+/-0.50	
GW0850 (1210292-11)			Lab File ID: 1029211.D			Analyzed: 11/16/12 21:12			
1,4-Dichlorobenzene-d4	566424	5.527	625135	5.528	91	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2065491	7.194	2188418	7.194	94	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1302713	9.44	1362874	9.44	96	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	2017691	11.241	2134435	11.241	95	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1973324	14.542	2097077	14.543	94	50 - 200	-0.0010	+/-0.50	
Perylene-d12	1957803	16.643	2126723	16.644	92	50 - 200	-0.0010	+/-0.50	
Blank (2K05004-BLK1)			Lab File ID: K05004B1.D			Analyzed: 11/16/12 23:02			
1,4-Dichlorobenzene-d4	636056	5.527	625135	5.528	102	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2239256	7.194	2188418	7.194	102	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1408531	9.44	1362874	9.44	103	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	2152631	11.241	2134435	11.241	101	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2197486	14.542	2097077	14.543	105	50 - 200	-0.0010	+/-0.50	
Perylene-d12	2205388	16.643	2126723	16.644	104	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32413	Instrument:	MS-BNA3
		Calibration:	2261001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (2K05004-BS1)			Lab File ID: K05004L1.D			Analyzed: 11/16/12 23:29			
1,4-Dichlorobenzene-d4	633706	5.529	625135	5.528	101	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2208629	7.196	2188418	7.194	101	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1382942	9.442	1362874	9.44	101	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2129913	11.243	2134435	11.241	100	50 - 200	0.0020	+/-0.50	
Chrysene-d12	2129712	14.544	2097077	14.543	102	50 - 200	0.0010	+/-0.50	
Perylene-d12	2177970	16.646	2126723	16.644	102	50 - 200	0.0020	+/-0.50	
LCS Dup (2K05004-BSD1)			Lab File ID: K05004L2.D			Analyzed: 11/16/12 23:57			
1,4-Dichlorobenzene-d4	617795	5.529	625135	5.528	99	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2166621	7.196	2188418	7.194	99	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1375494	9.442	1362874	9.44	101	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2145516	11.243	2134435	11.241	101	50 - 200	0.0020	+/-0.50	
Chrysene-d12	2088036	14.544	2097077	14.543	100	50 - 200	0.0010	+/-0.50	
Perylene-d12	2148130	16.645	2126723	16.644	101	50 - 200	0.0010	+/-0.50	
GW0786 (1210292-01)			Lab File ID: 1029201.D			Analyzed: 11/17/12 00:25			
1,4-Dichlorobenzene-d4	653862	5.529	625135	5.528	105	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2257296	7.195	2188418	7.194	103	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1442757	9.441	1362874	9.44	106	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	2200923	11.242	2134435	11.241	103	50 - 200	0.0010	+/-0.50	
Chrysene-d12	2209971	14.533	2097077	14.543	105	50 - 200	-0.0100	+/-0.50	
Perylene-d12	2211668	16.645	2126723	16.644	104	50 - 200	0.0010	+/-0.50	
GW0787 (1210292-03)			Lab File ID: 1029203.D			Analyzed: 11/17/12 00:53			
1,4-Dichlorobenzene-d4	647791	5.527	625135	5.528	104	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2251816	7.193	2188418	7.194	103	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1428779	9.439	1362874	9.44	105	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	2166393	11.24	2134435	11.241	101	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	2168332	14.542	2097077	14.543	103	50 - 200	-0.0010	+/-0.50	
Perylene-d12	2181503	16.643	2126723	16.644	103	50 - 200	-0.0010	+/-0.50	
GW0788 (1210292-05)			Lab File ID: 1029205.D			Analyzed: 11/17/12 01:20			
1,4-Dichlorobenzene-d4	568997	5.53	625135	5.528	91	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2017394	7.196	2188418	7.194	92	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1267534	9.442	1362874	9.44	93	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	1958450	11.243	2134435	11.241	92	50 - 200	0.0020	+/-0.50	
Chrysene-d12	1937367	14.535	2097077	14.543	92	50 - 200	-0.0080	+/-0.50	
Perylene-d12	1944972	16.636	2126723	16.644	91	50 - 200	-0.0080	+/-0.50	

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	5	1.226402	10	1.172004	20	1.216724	40	1.106133	50	1.105635	60	1.066451
Acenaphthylene	5	1.882626	10	1.825223	20	1.853268	40	1.686654	50	1.630586	60	1.58258
Acetophenone												
Aniline	5	2.075085	10	2.083071	20	2.115921	40	2.012055	50	1.981178	60	1.922491
Anthracene	5	1.190117	10	1.216677	20	1.210592	40	1.133693	50	1.074923	60	1.027613
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.07808	10	1.158464	20	1.187972	40	1.125607	50	1.111216	60	1.080801
Benzo(a)pyrene	5	0.8969984	10	0.988024	20	1.053969	40	1.082485	50	1.050188	60	1.047536
Benzo(b)fluoranthene	5	0.9192774	10	0.9995984	20	1.027394	40	1.163507	50	1.151156	60	1.102624
Benzo(g,h,i)perylene	5	0.8810196	10	0.9354534	20	1.023945	40	1.041762	50	1.031788	60	1.025219
Benzoic acid	5	0.1800138	10	0.1971305	20	0.2320922	40	0.2667048	50	0.3038777	60	0.2934733
Benzo(k)fluoranthene	5	1.385345	10	1.389508	20	1.50509	40	1.294027	50	1.247302	60	1.255501
Benzyl alcohol	5	0.7723651	10	0.8400763	20	0.84085	40	0.8585047	50	0.855408	60	0.8444593
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.2285879	10	0.242289	20	0.2441512	40	0.2392219	50	0.2372267	60	0.2395644
Butylbenzylphthalate	5	0.4630096	10	0.4944857	20	0.5607301	40	0.557858	50	0.5631426	60	0.5528675
Caprolactam												
Carbazole	5	1.067151	10	1.166965	20	1.142299	40	1.080385	50	1.01809	60	0.9924129
4-Chloro-3-methylphenol	5	0.2949249	10	0.3240161	20	0.3402999	40	0.3358677	50	0.3333448	60	0.3279835
4-Chloroaniline	5	0.437418	10	0.4487067	20	0.4701531	40	0.4455991	50	0.4474384	60	0.4368809
Bis(2-chloroethoxy)methane	5	0.4529439	10	0.460763	20	0.4579347	40	0.437325	50	0.43609	60	0.4299759
Bis(2-chloroethyl)ether	5	1.311057	10	1.320356	20	1.353769	40	1.299644	50	1.303123	60	1.255375
2,2'-Oxybis-1-chloropropane	5	1.751597	10	1.7475	20	1.739639	40	1.678201	50	1.686332	60	1.618641
2-Chloronaphthalene	5	1.195427	10	1.175982	20	1.194056	40	1.110827	50	1.115289	60	1.070192
2-Chlorophenol	5	1.202517	10	1.275122	20	1.326919	40	1.300237	50	1.289146	60	1.268001
4-Chlorophenyl phenyl ether	5	0.6742086	10	0.6954678	20	0.6890185	40	0.6402671	50	0.6432798	60	0.6252312
Chrysene	5	1.169698	10	1.134234	20	1.187301	40	1.098305	50	1.054946	60	1.023574
Dibenz(a,h)anthracene	5	0.7929059	10	0.9127398	20	0.9778044	40	1.040796	50	1.012641	60	1.013459
Dibenzofuran	5	1.703833	10	1.693413	20	1.704482	40	1.540782	50	1.529322	60	1.472516

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12_10:38 9/11/12_17:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	5	1.16861	10	1.255953	20	1.283272	40	1.181135	50	1.106647	60	1.06418
1,4-Dichlorobenzene	5	1.531421	10	1.56121	20	1.527423	40	1.451014	50	1.445896	60	1.432695
1,3-Dichlorobenzene	5	1.475221	10	1.490131	20	1.527514	40	1.450766	50	1.468528	60	1.394971
1,2-Dichlorobenzene	5	1.455679	10	1.443407	20	1.456504	40	1.4098	50	1.385694	60	1.338072
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.2847428	10	0.3263219	20	0.3328921	40	0.3242484	50	0.3321999	60	0.3215921
Diethylphthalate	5	1.323041	10	1.286795	20	1.368087	40	1.251514	50	1.243205	60	1.211569
2,4-Dimethylphenol	5	0.3723077	10	0.3922829	20	0.4013375	40	0.390409	50	0.388078	60	0.3762622
Dimethyl phthalate	5	1.373422	10	1.353026	20	1.386701	40	1.27275	50	1.233596	60	1.187798
4,6-Dinitro-2-methylphenol	5	7.614394E-02	10	0.1096655	20	0.130206	40	0.1508675	50	0.1529725	60	0.1565992
2,4-Dinitrophenol	5	7.088052E-02	10	0.1093294	20	0.1395075	40	0.1679181	50	0.1812304	60	0.190222
2,4-Dinitrotoluene	5	0.3531728	10	0.3912608	20	0.43451	40	0.4257123	50	0.4261383	60	0.426781
2,6-Dinitrotoluene	5	0.2714151	10	0.2923165	20	0.3163528	40	0.3062322	50	0.3212079	60	0.3121858
Di-n-octylphthalate	5	0.8771769	10	1.020225	20	1.123468	40	1.220057	50	1.208407	60	1.209285
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.8301083	10	0.867185	20	0.861467	40	0.8127303	50	0.7719215	60	0.7712792
Bis(2-ethylhexyl)phthalate	5	0.5881362	10	0.6483224	20	0.7324606	40	0.7333481	50	0.7419646	60	0.7344114
Fluoranthene	5	1.23635	10	1.317053	20	1.322223	40	1.210618	50	1.137281	60	1.112443
Fluorene	5	1.465575	10	1.402744	20	1.471988	40	1.327424	50	1.326116	60	1.285392
2-Fluorobiphenyl	5	1.406801	10	1.339106	20	1.373728	40	1.274645	50	1.266637	60	1.228683
2-Fluorophenol	10	1.159714	20	1.147427	40	1.17776	80	1.150615	100	1.131493	120	1.125717
Hexachlorobenzene	5	0.2463841	10	0.2654048	20	0.2691727	40	0.260909	50	0.2592312	60	0.2550784
Hexachlorobutadiene	5	0.2055813	10	0.2041694	20	0.2054767	40	0.2018028	50	0.2080746	60	0.2058022
Hexachlorocyclopentadiene	5	0.2916181	10	0.3162971	20	0.3534771	40	0.3570826	50	0.3593493	60	0.3660123
Hexachloroethane	5	0.6211759	10	0.6184263	20	0.6267446	40	0.6115714	50	0.6020682	60	0.6042834
Indeno(1,2,3-cd)pyrene	5	0.9842869	10	1.100186	20	1.231231	40	1.249436	50	1.252622	60	1.241693
Isophorone	5	0.7053235	10	0.7342949	20	0.7372863	40	0.7150188	50	0.700254	60	0.6863517
1-Methylnaphthalene	5	0.6263254	10	0.6219691	20	0.6167648	40	0.6025289	50	0.5932049	60	0.5754876
2-Methylnaphthalene	5	0.6487649	10	0.6439735	20	0.6616897	40	0.619805	50	0.6168634	60	0.5906787
2-Methylphenol	5	1.13215	10	1.166193	20	1.214549	40	1.183468	50	1.190711	60	1.14973

INITIAL CALIBRATION DATA

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12_10:38 9/11/12_17:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	5	1.213749	10	1.204609	20	1.246534	40	1.24349	50	1.260916	60	1.207785
4-Methylphenol	5	1.213749	10	1.204609	20	1.246534	40	1.24349	50	1.260916	60	1.207785
3-Methylphenol/4-Methylphenol	5	1.213749	10	1.204609	20	1.246534	40	1.24349	50	1.260916	60	1.207785
Naphthalene	5	1.131168	10	1.115217	20	1.097102	40	1.018	50	0.9838111	60	0.9336806
4-Nitroaniline	5	0.310375	10	0.2880078	20	0.3319512	40	0.3278091	50	0.3394978	60	0.3319657
3-Nitroaniline	5	0.3061045	10	0.3165566	20	0.3311253	40	0.3337432	50	0.3324556	60	0.333826
2-Nitroaniline	5	0.3122476	10	0.31289	20	0.3414956	40	0.3500366	50	0.3516678	60	0.3465091
Nitrobenzene	5	0.4067955	10	0.405922	20	0.4226794	40	0.4097124	50	0.4155971	60	0.4022004
Nitrobenzene-d5	5	0.3901635	10	0.4008388	20	0.4181021	40	0.4098124	50	0.4068753	60	0.4013554
4-Nitrophenol	5	0.2205213	10	0.2238418	20	0.2704735	40	0.2810258	50	0.2788603	60	0.2746765
2-Nitrophenol	5	0.1572246	10	0.170622	20	0.1900949	40	0.1941729	50	0.1979488	60	0.1972528
N-Nitrosodimethylamine	5	0.6561451	10	0.6489775	20	0.6975004	40	0.6585053	50	0.6588495	60	0.6399517
N-Nitrosodiphenylamine	5	0.7117719	10	0.7279842	20	0.7319408	40	0.6857475	50	0.6689627	60	0.6710496
N-Nitroso-di-n-propylamine	5	1.013651	10	1.014837	20	1.036074	40	0.9774363	50	0.9701911	60	0.9510779
Pentachlorophenol	5	0.1242903	10	0.1472987	20	0.1675192	40	0.1807789	50	0.1772911	60	0.1753101
Phenanthrene	5	1.243048	10	1.256443	20	1.204927	40	1.111894	50	1.046238	60	1.020124
Phenol	5	1.788617	10	1.724966	20	1.754811	40	1.756593	50	1.70602	60	1.681391
Phenol-d6	10	1.56702	20	1.578964	40	1.575631	80	1.495776	100	1.472042	120	1.433011
Pyrene	5	1.269569	10	1.335888	20	1.347438	40	1.215283	50	1.176284	60	1.135994
Pyridine	5	1.450894	10	1.508679	20	1.500758	40	1.402303	50	1.421701	60	1.439583
Terphenyl-d14	5	0.759045	10	0.7914832	20	0.8267835	40	0.7856392	50	0.7550846	60	0.7440656
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.3129583	10	0.3205266	20	0.3493419	40	0.3448924	50	0.3561204	60	0.3409846
2,4,6-Tribromophenol	10	9.746889E-02	20	0.1098797	40	0.1147914	80	0.1197327	100	0.11624	120	0.116617
1,2,4-Trichlorobenzene	5	0.3494616	10	0.3476154	20	0.3551252	40	0.3384588	50	0.3410857	60	0.3336289
2,4,6-Trichlorophenol	5	0.3633886	10	0.3835832	20	0.4015645	40	0.3975579	50	0.3943937	60	0.396121
2,4,5-Trichlorophenol	5	0.3479752	10	0.3593403	20	0.4048246	40	0.4025023	50	0.4053154	60	0.4080477

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	80	1.007038	100	0.9448967								
Acenaphthylene	80	1.463699	100	1.354083								
Acetophenone					5	1.854627	10	1.791064	20	1.814119	40	1.786505
Aniline	80	1.836509	100	1.778359								
Anthracene	80	0.9395351	100	0.8619493								
Atrazine					5	0.2149468	10	0.2213603	20	0.225859	40	0.2406622
Benzaldehyde					5	1.101007	10	1.076328	20	1.07395	40	0.9905509
Benzidine					5	0.5982221	10	0.6233508	20	0.6721449	40	0.6816705
Benzo(a)anthracene	80	1.039064	100	0.988222								
Benzo(a)pyrene	80	1.057477	100	0.9849124								
Benzo(b)fluoranthene	80	1.000322	100	1.137211								
Benzo(g,h,i)perylene	80	1.010113	100	1.00717								
Benzoic acid	80	0.288002	100	0.3073683								
Benzo(k)fluoranthene	80	1.288017	100	1.039958								
Benzyl alcohol	80	0.8399113	100	0.8291029								
1,1-Biphenyl					5	1.444924	10	1.462762	20	1.465034	40	1.400757
4-Bromophenyl-phenylether	80	0.2322959	100	0.2267755								
Butylbenzylphthalate	80	0.5450172	100	0.5332066								
Caprolactam					5	9.508992E-02	10	0.0970182	20	0.1014958	40	0.1071126
Carbazole	80	0.9117642	100	0.8603283								
4-Chloro-3-methylphenol	80	0.3239361	100	0.3128581								
4-Chloroaniline	80	0.4181819	100	0.4057045								
Bis(2-chloroethoxy)methane	80	0.412871	100	0.401461								
Bis(2-chloroethyl)ether	80	1.234201	100	1.196301								
2,2'-Oxybis-1-chloropropane	80	1.559356	100	1.522435								
2-Chloronaphthalene	80	1.037875	100	0.9697123								
2-Chlorophenol	80	1.250053	100	1.221566								
4-Chlorophenyl phenyl ether	80	0.6050546	100	0.582263								
Chrysene	80	0.9773309	100	0.9316359								
Dibenz(a,h)anthracene	80	1.013161	100	0.9812686								
Dibenzofuran	80	1.350958	100	1.254226								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate	80	0.9816543	100	0.8971291								
1,4-Dichlorobenzene	80	1.376729	100	1.309893								
1,3-Dichlorobenzene	80	1.370178	100	1.332432								
1,2-Dichlorobenzene	80	1.299695	100	1.272024								
3,3'-Dichlorobenzidine					5	0.3543587	10	0.3740634	20	0.3969158	40	0.4162336
2,6-Dichlorophenol					5	0.3029182	10	0.3037802	20	0.3026235	40	0.3162123
2,4-Dichlorophenol	80	0.3128693	100	0.3030876								
Diethylphthalate	80	1.176199	100	1.110356								
2,4-Dimethylphenol	80	0.3615218	100	0.3601468								
Dimethyl phthalate	80	1.147566	100	1.101382								
4,6-Dinitro-2-methylphenol	80	0.1611426	100	0.1632566								
2,4-Dinitrophenol	80	0.2034171	100	0.2067659								
2,4-Dinitrotoluene	80	0.4250739	100	0.4213723								
2,6-Dinitrotoluene	80	0.3060406	100	0.3029055								
Di-n-octylphthalate	80	1.19253	100	1.130569								
1,4-Dioxane					5	0.5681997	10	0.5720167	20	0.5405075	40	0.5215231
1,2-Diphenylhydrazine	80	0.711338	100	0.6708871								
Bis(2-ethylhexyl)phthalate	80	0.7201792	100	0.6965867								
Fluoranthene	80	1.023074	100	0.9552043								
Fluorene	80	1.192825	100	1.10791								
2-Fluorobiphenyl	80	1.168444	100	1.100862								
2-Fluorophenol	160	1.054541	200	1.011147								
Hexachlorobenzene	80	0.2494867	100	0.2407232								
Hexachlorobutadiene	80	0.1926689	100	0.1935308								
Hexachlorocyclopentadiene	80	0.3720966	100	0.360964								
Hexachloroethane	80	0.587194	100	0.5769922								
Indeno(1,2,3-cd)pyrene	80	1.219234	100	1.186028								
Isophorone	80	0.6458218	100	0.6339611								
1-Methylnaphthalene	80	0.5292253	100	0.5167777								
2-Methylnaphthalene	80	0.5632596	100	0.5391497								
2-Methylphenol	80	1.122389	100	1.116647								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	80	1.197636	100	1.178114								
4-Methylphenol	80	1.197636	100	1.178114								
3-Methylphenol/4-Methylphenol	80	1.197636	100	1.178114								
Naphthalene	80	0.8568929	100	0.8020783								
4-Nitroaniline	80	0.3344389	100	0.3257398								
3-Nitroaniline	80	0.3329237	100	0.3339491								
2-Nitroaniline	80	0.3445397	100	0.3353103								
Nitrobenzene	80	0.3882844	100	0.3827503								
Nitrobenzene-d5	80	0.3854518	100	0.3790163								
4-Nitrophenol	80	0.2853949	100	0.2769577								
2-Nitrophenol	80	0.1988147	100	0.1958569								
N-Nitrosodimethylamine	80	0.6300438	100	0.6199096								
N-Nitrosodiphenylamine	80	0.6354454	100	0.5938058								
N-Nitroso-di-n-propylamine	80	0.9339268	100	0.919134								
Pentachlorophenol	80	0.1795239	100	0.1780552								
Phenanthrene	80	0.9246607	100	0.8510275								
Phenol	80	1.621348	100	1.575871								
Phenol-d6	160	1.363933	200	1.326291								
Pyrene	80	1.029161	100	0.9464214								
Pyridine	80	1.417841	100	1.409563								
Terphenyl-d14	80	0.7003809	100	0.6796219								
1,2,4,5-Tetrachlorobenzene					5	0.3642537	10	0.3739162	20	0.3587545	40	0.3586331
2,3,4,6-Tetrachlorophenol	80	0.3514703	100	0.348575								
2,4,6-Tribromophenol	160	0.114871	200	0.1137257								
1,2,4-Trichlorobenzene	80	0.3197429	100	0.3182462								
2,4,6-Trichlorophenol	80	0.3928045	100	0.3853417								
2,4,5-Trichlorophenol	80	0.3978263	100	0.3895499								

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2261001		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	9/11/12 10:38	9/11/12 17:40

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene												
Acenaphthylene												
Acetophenone	50	1.76145	60	1.801983	80	1.673292	100	1.611182				
Aniline												
Anthracene												
Atrazine	50	0.2359451	60	0.2357328	80	0.2298759	100	0.2247727				
Benzaldehyde	50	0.9748365	60	0.9989734	80	0.8898613	100	0.8739512				
Benzidine	50	0.6776385	60	0.680287	80	0.6439769	100	0.6296377				
Benzo(a)anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzoic acid												
Benzo(k)fluoranthene												
Benzyl alcohol												
1,1-Biphenyl	50	1.364835	60	1.327666	80	1.236441	100	1.162958				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1109058	60	0.1124372	80	0.1099913	100	0.1099271				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												
Dibenzofuran												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2261001	Instrument:	MS-BNA3	
Matrix:	Water	Calibration Dates:	9/11/12 10:38	9/11/12 17:40

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
3,3'-Dichlorobenzidine	50	0.416014	60	0.4278231	80	0.412885	100	0.3940041				
2,6-Dichlorophenol	50	0.3200868	60	0.3120857	80	0.3076012	100	0.2959819				
2,4-Dichlorophenol												
Diethylphthalate												
2,4-Dimethylphenol												
Dimethyl phthalate												
4,6-Dinitro-2-methylphenol												
2,4-Dinitrophenol												
2,4-Dinitrotoluene												
2,6-Dinitrotoluene												
Di-n-octylphthalate												
1,4-Dioxane	50	0.5110823	60	0.5407586	80	0.5060359	100	0.5102403				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2261001	Instrument:	MS-BNA3	
Matrix:	Water	Calibration Dates:	9/11/12 10:38	9/11/12 17:40

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol												
4-Methylphenol												
3-Methylphenol/4-Methylphenol												
Naphthalene												
4-Nitroaniline												
3-Nitroaniline												
2-Nitroaniline												
Nitrobenzene												
Nitrobenzene-d5												
4-Nitrophenol												
2-Nitrophenol												
N-Nitrosodimethylamine												
N-Nitrosodiphenylamine												
N-Nitroso-di-n-propylamine												
Pentachlorophenol												
Phenanthrene												
Phenol												
Phenol-d6												
Pyrene												
Pyridine												
Terphenyl-d14												
1,2,4,5-Tetrachlorobenzene	50	0.354329	60	0.3540016	80	0.3422855	100	0.3257612				
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.10566	8.941982	9.541375	5.759679E-02			CCC (20)	
Acenaphthylene	1.65984	11.47408	9.309875	5.149462E-02			CCC (20)	
Acetophenone	1.761778	4.548734	6.15075	0.029436			CCC (20)	
Aniline	1.975584	6.156998	5.21875	8.840861E-03			CCC (20)	
Anthracene	1.081887	12.14042	11.38375	4.965419E-02			CCC (20)	
Atrazine	0.2286444	3.743847	11.014	2.800227E-02			CCC (20)	
Benzaldehyde	0.9974323	8.489099	5.032875	0.0350803			CCC (20)	
Benzidine	0.650866	4.862256	12.96125	7.03444E-03			CCC (20)	
Benzo(a)anthracene	1.096178	5.859442	14.68275	0.0361667			CCC (20)	
Benzo(a)pyrene	1.020199	5.91785	16.89375	4.367248E-02			CCC (20)	
Benzo(b)fluoranthene	1.062636	8.32804	16.3765	4.687998E-02			CCC (20)	
Benzo(g,h,i)perylene	0.9945587	5.662765	19.13462	6.322926E-02			CCC (20)	
Benzoic acid	0.2585828	19.18735	7.002875	0.5416775	0.9968332		CCC (20)	
Benzo(k)fluoranthene	1.300594	10.47456	16.41512	4.428847E-02			CCC (20)	
Benzyl alcohol	0.8350847	3.232369	5.801	8.006347E-02			CCC (20)	
1,1-Biphenyl	1.358172	8.14203	8.777	3.752441E-02			CCC (20)	
4-Bromophenyl-phenylether	0.2362641	2.694889	10.759	4.506461E-02			CCC (20)	
Butylbenzylphthalate	0.5337897	6.795952	13.95313	1.982893E-02			CCC (20)	
Caprolactam	0.1054972	6.369373	7.769375	0.1428007			CCC (20)	
Carbazole	1.029924	10.35465	11.592	4.012654E-02			CCC (20)	
4-Chloro-3-methylphenol	0.3241539	4.484259	8.02375	2.422232E-02			CCC (20)	
4-Chloroaniline	0.4387603	4.499309	7.395	6.407021E-02			CCC (20)	
Bis(2-chloroethoxy)methane	0.4361706	4.861304	6.99	5.257221E-02			CCC (20)	
Bis(2-chloroethyl)ether	1.284228	4.005468	5.29525	0.1014556			CCC (20)	
2,2'-Oxybis-1-chloropropane	1.662963	5.286827	6.008	7.846643E-02			CCC (20)	
2-Chloronaphthalene	1.10867	7.247886	8.782	5.276285E-02			CCC (20)	
2-Chlorophenol	1.266695	3.235977	5.356	8.851782E-02			CCC (20)	
4-Chlorophenyl phenyl ether	0.6443488	6.230529	10.16638	5.729773E-03			CCC (20)	
Chrysene	1.072128	8.541599	14.74763	3.641467E-02			CCC (20)	
Dibenz(a,h)anthracene	0.968097	8.317117	18.71425	4.210554E-02			CCC (20)	
Dibenzofuran	1.531191	11.0083	9.734	4.736714E-02			CCC (20)	
Di-n-butylphthalate	1.117323	11.87776	12.081	2.243919E-02			CCC (20)	

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.454535	5.818776	5.61225	0.013037			CCC (20)	
1,3-Dichlorobenzene	1.438718	4.610703	5.53975	1.248566E-02			CCC (20)	
1,2-Dichlorobenzene	1.382609	5.210718	5.860625	0.0201332			CCC (20)	
3,3'-Dichlorobenzidine	0.3990372	6.177841	14.68175	2.892872E-02			CCC (20)	
2,6-Dichlorophenol	0.3076612	2.595722	7.40325	2.436204E-02			15	
2,4-Dichlorophenol	0.3172443	5.18606	7.101375	4.761375E-02			CCC (20)	
Diethylphthalate	1.246346	6.574405	10.103	6.670748E-02			CCC (20)	
2,4-Dimethylphenol	0.3802932	3.960326	6.8645	1.752451E-02			CCC (20)	
Dimethyl phthalate	1.25703	8.5773	9.232125	5.107294E-02			CCC (20)	
4,6-Dinitro-2-methylphenol	0.1376067	22.31038	10.28925	8.292123E-02	0.9995831		CCC (20)	*
2,4-Dinitrophenol	0.1586589	30.52087	9.602375	5.674957E-02	0.9965146		CCC (20)	*
2,4-Dinitrotoluene	0.4130027	6.633871	9.796125	4.871438E-02			CCC (20)	
2,6-Dinitrotoluene	0.3035821	5.167856	9.315	4.886391E-02			CCC (20)	
Di-n-octylphthalate	1.122715	10.64814	15.776	1.209158E-02			CCC (20)	
1,4-Dioxane	0.5337955	4.869741	2.414375	7.061711E-02			15	
1,2-Diphenylhydrazine	0.7871146	8.877235	10.355	4.530772E-02			CCC (20)	
Bis(2-ethylhexyl)phthalate	0.6994262	7.777001	14.8135	7.521677E-03			CCC (20)	
Fluoranthene	1.164281	11.37119	12.78475	7.212182E-03			CCC (20)	
Fluorene	1.322497	9.629889	10.15838	0.047539			CCC (20)	
2-Fluorobiphenyl	1.269863	8.146411	8.668	5.397084E-02			CCC (20)	
2-Fluorophenol	1.119802	5.107841	4.039	1.607769E-02			CCC (20)	
Hexachlorobenzene	0.2557988	3.811211	10.93875	0.0483882			CCC (20)	
Hexachlorobutadiene	0.2021383	2.894676	7.537375	1.656083E-02			CCC (20)	
Hexachlorocyclopentadiene	0.3471121	8.069592	8.46875	1.743379E-02			CCC (20)	
Hexachloroethane	0.606057	2.830271	6.25375	5.98945E-03			CCC (20)	
Indeno(1,2,3-cd)pyrene	1.18309	7.999515	18.68575	3.410259E-02			CCC (20)	
Isophorone	0.694789	5.463283	6.678375	9.487201E-03			CCC (20)	
1-Methylnaphthalene	0.5852855	7.165809	8.311	5.573635E-02			CCC (20)	
2-Methylnaphthalene	0.6105231	7.071532	8.168625	0.0152489			CCC (20)	
2-Methylphenol	1.15948	3.037164	5.977	7.574059E-02			CCC (20)	
3-Methylphenol	1.219104	2.320772	6.17375	7.362797E-02			CCC (20)	
4-Methylphenol	1.219104	2.320772	6.17375	7.362797E-02			CCC (20)	

INITIAL CALIBRATION DATA (Continued)

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2261001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	9/11/12 10:38 9/11/12 17:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.219104	2.320772	6.17375	7.362797E-02			15	
Naphthalene	0.9922437	12.28808	7.288875	1.449498E-02			CCC (20)	
4-Nitroaniline	0.3237232	5.187175	10.24375	9.360202E-02			CCC (20)	
3-Nitroaniline	0.3275855	3.191586	9.4845	6.968371E-02			CCC (20)	
2-Nitroaniline	0.3368371	4.692985	8.965625	2.313171E-02			CCC (20)	
Nitrobenzene	0.4042427	3.277603	6.37825	1.726574E-02			CCC (20)	
Nitrobenzene-d5	0.3989519	3.300556	6.357375	2.012303E-02			CCC (20)	
4-Nitrophenol	0.263969	9.91531	9.692875	0.0512375			CCC (20)	
2-Nitrophenol	0.1877485	8.18829	6.8025	0.0109992			CCC (20)	
N-Nitrosodimethylamine	0.6512354	3.595621	2.705	0.1357375			CCC (20)	
N-Nitrosodiphenylamine	0.6783385	6.967624	10.324	4.608146E-02			CCC (20)	
N-Nitroso-di-n-propylamine	0.977041	4.270567	6.194375	7.506511E-02			CCC (20)	
Pentachlorophenol	0.1662584	12.1407	11.15975	0.0122687			CCC (20)	
Phenanthrene	1.082295	13.7748	11.32925	4.510804E-02			CCC (20)	
Phenol	1.701202	4.253285	5.197	0.128711			CCC (20)	
Phenol-d6	1.476584	6.577862	5.18125	0.1022497			CCC (20)	
Pyrene	1.182005	12.0001	13.058	3.821264E-02			CCC (20)	
Pyridine	1.443915	2.816602	2.7155	0.1280989			CCC (20)	
Terphenyl-d14	0.755263	6.374122	13.26762	4.197651E-02			CCC (20)	
1,2,4,5-Tetrachlorobenzene	0.3539919	4.108493	8.43825	1.427966E-02			CCC (20)	
2,3,4,6-Tetrachlorophenol	0.3406087	4.554587	9.94875	1.854361E-02			CCC (20)	
2,4,6-Tribromophenol	0.1129158	6.053375	10.48725	7.380264E-03			CCC (20)	
1,2,4-Trichlorobenzene	0.3379206	3.985092	7.2165	8.724103E-03			CCC (20)	
2,4,6-Trichlorophenol	0.3893444	3.105104	8.572375	2.137935E-02			CCC (20)	
2,4,5-Trichlorophenol	0.3894227	5.904797	8.613625	1.934255E-02			CCC (20)	

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV1	Injection Time:	18:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	58.60	1.10566	1.295903	0.9	17.2	20
Acenaphthylene	A	50.00	54.94	1.65984	1.823847	0.9	9.9	20
Anthracene	A	50.00	53.20	1.081887	1.151058	0.7	6.4	20
Benzo(a)anthracene	A	50.00	55.59	1.096178	1.218701	0.8	11.2	20
Benzo(a)pyrene	A	50.00	53.88	1.020199	1.099446	0.7	7.8	20
Benzo(b)fluoranthene	A	50.00	53.05	1.062636	1.127461	0.7	6.1	20
Benzo(g,h,i)perylene	A	50.00	54.39	0.9945587	1.081915	0.5	8.8	20
Benzoic acid	L	50.00	48.69	0.2585828	0.2811545	0.01	-2.6	20
Benzo(k)fluoranthene	A	50.00	53.54	1.300594	1.392682	0.7	7.1	20
4-Bromophenyl-phenylether	A	50.00	53.33	0.2362641	0.2519767	0.1	6.7	20
Butylbenzylphthalate	A	50.00	55.26	0.5337897	0.5899795	0.01	10.5	20
Carbazole	A	50.00	53.21	1.029924	1.095962	0.01	6.4	20
4-Chloro-3-methylphenol	A	50.00	54.72	0.3241539	0.3547434	0.2	9.4	20
4-Chloroaniline	A	50.00	52.81	0.4387603	0.4634271	0.01	5.6	20
Bis(2-chloroethoxy)methane	A	50.00	53.38	0.4361706	0.4656965	0.3	6.8	20
Bis(2-chloroethyl)ether	A	50.00	56.03	1.284228	1.439207	0.7	12.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	55.74	1.662963	1.853836	0.01	11.5	20
2-Chloronaphthalene	A	50.00	51.24	1.10867	1.136069	0.8	2.5	20
2-Chlorophenol	A	50.00	58.06	1.266695	1.470975	0.8	16.1	20
4-Chlorophenyl phenyl ether	A	50.00	51.29	0.6443488	0.6609697	0.4	2.6	20
Chrysene	A	50.00	56.09	1.072128	1.202645	0.7	12.2	20
Dibenz(a,h)anthracene	A	50.00	55.01	0.968097	1.065122	0.4	10.0	20
Dibenzofuran	A	50.00	53.47	1.531191	1.637537	0.8	6.9	20
Di-n-butylphthalate	A	50.00	51.42	1.117323	1.148948	0.01	2.8	20
2,4-Dichlorophenol	A	50.00	54.14	0.3172443	0.3435181	0.2	8.3	20
Diethylphthalate	A	50.00	50.34	1.246346	1.254886	0.01	0.7	20
2,4-Dimethylphenol	A	50.00	56.41	0.3802932	0.4290272	0.2	12.8	20
Dimethyl phthalate	A	50.00	49.52	1.25703	1.244959	0.01	-1.0	20
4,6-Dinitro-2-methylphenol	L	50.00	53.68	0.1376067	0.1681106	0.01	7.4	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV1	Injection Time:	18:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	49.63	0.1586589	0.1883481	0.05	-0.7	20
2,4-Dinitrotoluene	A	50.00	52.00	0.4130027	0.4295454	0.2	4.0	20
2,6-Dinitrotoluene	A	50.00	53.10	0.3035821	0.3224102	0.2	6.2	20
Di-n-octylphthalate	A	50.00	55.98	1.122715	1.25702	0.01	12.0	20
1,2-Diphenylhydrazine	A	50.00	54.43	0.7871146	0.856912	0.01	8.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	56.88	0.6994262	0.7957128	0.01	13.8	20
Fluoranthene	A	50.00	53.36	1.164281	1.242525	0.6	6.7	20
Fluorene	A	50.00	51.97	1.322497	1.3745	0.9	3.9	20
Hexachlorobenzene	A	50.00	53.88	0.2557988	0.2756724	0.1	7.8	20
Hexachlorobutadiene	A	50.00	59.84	0.2021383	0.2419049	0.01	19.7	20
Hexachlorocyclopentadiene	A	50.00	55.42	0.3471121	0.3847598	0.05	10.8	20
Hexachloroethane	A	50.00	54.49	0.606057	0.6604722	0.3	9.0	20
Indeno(1,2,3-cd)pyrene	A	50.00	54.73	1.18309	1.295127	0.5	9.5	20
Isophorone	A	50.00	52.71	0.694789	0.7324747	0.4	5.4	20
1-Methylnaphthalene	A	50.00	53.43	0.5852855	0.6253864	0.01	6.9	20
2-Methylnaphthalene	A	50.00	52.57	0.6105231	0.6419021	0.4	5.1	20
2-Methylphenol	A	50.00	58.16	1.15948	1.348604	0.7	16.3	20
3-Methylphenol/4-Methylphenol	A	50.00	58.18	1.219104	1.418582		16.4	20
Naphthalene	A	50.00	57.00	0.9922437	1.131112	0.7	14.0	20
4-Nitroaniline	A	50.00	53.79	0.3237232	0.348242	0.01	7.6	20
3-Nitroaniline	A	50.00	53.70	0.3275855	0.3518224	0.01	7.4	20
2-Nitroaniline	A	50.00	58.40	0.3368371	0.3934389	0.01	16.8	20
Nitrobenzene	A	50.00	52.69	0.4042427	0.4260277	0.2	5.4	20
4-Nitrophenol	A	50.00	54.75	0.263969	0.2890525	0.05	9.5	20
2-Nitrophenol	A	50.00	54.00	0.1877485	0.2027527	0.1	8.0	20
N-Nitrosodiphenylamine	A	50.00	53.61	0.6783385	0.7272844	0.01	7.2	20
N-Nitroso-di-n-propylamine	A	50.00	55.58	0.977041	1.086017	0.5	11.2	20
Phenanthrene	A	50.00	53.75	1.082295	1.163421	0.7	7.5	20
Phenol	A	50.00	56.31	1.701202	1.915796	0.8	12.6	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV1	Injection Time:	18:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)	
Pyrene	A	50.00	54.56	1.182005	1.289905	0.6	9.1	20	
2,4,6-Trichlorophenol	A	50.00	53.74	0.3893444	0.4184625	0.2	7.5	20	
2,4,5-Trichlorophenol	A	50.00	58.16	0.3894227	0.4529662	0.2	16.3	20	
2-Fluorobiphenyl	A	50.00	53.53	1.269863	1.359507	0.01	7.1	20	
2-Fluorophenol	A	100.0	122.0	1.119802	1.365786	0.01	22.0	20	*
Nitrobenzene-d5	A	50.00	55.18	0.3989519	0.4402934	0.01	10.4	20	
Phenol-d6	A	100.0	113.3	1.476584	1.673269	0.01	13.3	20	
Terphenyl-d14	A	50.00	59.66	0.755263	0.9012434	0.01	19.3	20	
2,4,6-Tribromophenol	A	100.0	109.1	0.1129158	0.1231592	0.01	9.1	20	

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV2.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/11/12
Lab Sample ID:	2I25803-ICV2	Injection Time:	18:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	52.13	1.761778	1.836985	0.01	4.3	20
Atrazine	A	50.00	47.98	0.2286444	0.2194247	0.01	-4.0	20
Benzaldehyde	A	50.00	52.76	0.9974323	1.052489	0.01	5.5	20
Benzidine	A	50.00	56.11	0.650866	0.7304139	0.01	12.2	20
1,1-Biphenyl	A	50.00	51.62	1.358172	1.402158	0.01	3.2	20
Caprolactam	A	50.00	55.44	0.1054972	0.1169682	0.01	10.9	20
3,3'-Dichlorobenzidine	A	50.00	54.50	0.3990372	0.4349478	0.01	9.0	20

INITIAL CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-ICV3.D	Calibration Date:	09/11/12 10:38
Sequence:	2I25803	Injection Date:	09/12/12
Lab Sample ID:	2I25803-ICV3	Injection Time:	15:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Pentachlorophenol	A	50.00	46.01	0.1662584	0.1529758	0.05	-8.0	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CC1E.D	Calibration Date:	09/11/12 10:38
Sequence:	2K31903	Injection Date:	11/13/12
Lab Sample ID:	2K31903-CCV1	Injection Time:	18:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	48.40	1.10566	1.070356	0.9	-3.2	20
Acenaphthylene	A	50.00	49.84	1.65984	1.654703	0.9	-0.3	20
Anthracene	A	50.00	52.64	1.081887	1.139003	0.7	5.3	20
Benzo(a)anthracene	A	50.00	54.30	1.096178	1.190488	0.8	8.6	20
Benzo(a)pyrene	A	50.00	54.84	1.020199	1.119067	0.7	9.7	20
Benzo(b)fluoranthene	A	50.00	56.08	1.062636	1.191852	0.7	12.2	20
Benzo(g,h,i)perylene	A	50.00	55.43	0.9945587	1.102609	0.5	10.9	20
Benzoic acid	L	50.00	57.35	0.2585828	0.3355858	0.01	14.7	20
Benzo(k)fluoranthene	A	50.00	46.99	1.300594	1.222281	0.7	-6.0	20
4-Bromophenyl-phenylether	A	50.00	53.28	0.2362641	0.2517804	0.1	6.6	20
Butylbenzylphthalate	A	50.00	58.09	0.5337897	0.6201377	0.01	16.2	20
Carbazole	A	50.00	53.25	1.029924	1.096854	0.01	6.5	20
4-Chloro-3-methylphenol	A	50.00	54.42	0.3241539	0.3527929	0.2	8.8	20
4-Chloroaniline	A	50.00	54.30	0.4387603	0.4765289	0.01	8.6	20
Bis(2-chloroethoxy)methane	A	50.00	52.83	0.4361706	0.4608528	0.3	5.7	20
Bis(2-chloroethyl)ether	A	50.00	54.30	1.284228	1.394644	0.7	8.6	20
2,2'-Oxybis-1-chloropropane	A	50.00	52.42	1.662963	1.743518	0.01	4.8	20
2-Chloronaphthalene	A	50.00	49.47	1.10867	1.096994	0.8	-1.1	20
2-Chlorophenol	A	50.00	57.32	1.266695	1.452118	0.8	14.6	20
4-Chlorophenyl phenyl ether	A	50.00	49.68	0.6443488	0.6402006	0.4	-0.6	20
Chrysene	A	50.00	50.24	1.072128	1.077199	0.7	0.5	20
Dibenz(a,h)anthracene	A	50.00	56.78	0.968097	1.099473	0.4	13.6	20
Dibenzofuran	A	50.00	49.82	1.531191	1.525623	0.8	-0.4	20
Di-n-butylphthalate	A	50.00	52.13	1.117323	1.164977	0.01	4.3	20
2,4-Dichlorophenol	A	50.00	55.42	0.3172443	0.3516368	0.2	10.8	20
Diethylphthalate	A	50.00	46.76	1.246346	1.165473	0.01	-6.5	20
2,4-Dimethylphenol	A	50.00	52.60	0.3802932	0.4000325	0.2	5.2	20
Dimethyl phthalate	A	50.00	49.45	1.25703	1.243197	0.01	-1.1	20
4,6-Dinitro-2-methylphenol	L	50.00	60.42	0.1376067	0.1908634	0.01	20.8	20 *

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CC1E.D	Calibration Date:	09/11/12 10:38
Sequence:	2K31903	Injection Date:	11/13/12
Lab Sample ID:	2K31903-CCV1	Injection Time:	18:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dinitrophenol	L	50.00	63.12	0.1586589	0.2469401	0.05	26.2	20 *
2,4-Dinitrotoluene	A	50.00	53.65	0.4130027	0.4431195	0.2	7.3	20
2,6-Dinitrotoluene	A	50.00	56.15	0.3035821	0.3409159	0.2	12.3	20
Di-n-octylphthalate	A	50.00	60.71	1.122715	1.363309	0.01	21.4	20 *
1,2-Diphenylhydrazine	A	50.00	49.01	0.7871146	0.771574	0.01	-2.0	20
Bis(2-ethylhexyl)phthalate	A	50.00	59.21	0.6994262	0.8283268	0.01	18.4	20
Fluoranthene	A	50.00	52.08	1.164281	1.212834	0.6	4.2	20
Fluorene	A	50.00	48.41	1.322497	1.280392	0.9	-3.2	20
Hexachlorobenzene	A	50.00	51.72	0.2557988	0.2646093	0.1	3.4	20
Hexachlorobutadiene	A	50.00	49.94	0.2021383	0.2019129	0.01	-0.1	20
Hexachlorocyclopentadiene	A	50.00	47.36	0.3471121	0.3288168	0.05	-5.3	20
Hexachloroethane	A	50.00	49.37	0.606057	0.5983861	0.3	-1.3	20
Indeno(1,2,3-cd)pyrene	A	50.00	54.58	1.18309	1.291419	0.5	9.2	20
Isophorone	A	50.00	50.77	0.694789	0.7055208	0.4	1.5	20
1-Methylnaphthalene	A	50.00	50.87	0.5852855	0.5954809	0.01	1.7	20
2-Methylnaphthalene	A	50.00	52.37	0.6105231	0.6394204	0.4	4.7	20
2-Methylphenol	A	50.00	58.67	1.15948	1.360588	0.7	17.3	20
3-Methylphenol/4-Methylphenol	A	50.00	58.38	1.219104	1.423526		16.8	20
Naphthalene	A	50.00	52.05	0.9922437	1.032915	0.7	4.1	20
4-Nitroaniline	A	50.00	54.92	0.3237232	0.3555531	0.01	9.8	20
3-Nitroaniline	A	50.00	57.56	0.3275855	0.3770885	0.01	15.1	20
2-Nitroaniline	A	50.00	52.78	0.3368371	0.3555543	0.01	5.6	20
Nitrobenzene	A	50.00	50.31	0.4042427	0.4067767	0.2	0.6	20
4-Nitrophenol	A	50.00	53.24	0.263969	0.2810522	0.05	6.5	20
2-Nitrophenol	A	50.00	63.13	0.1877485	0.2370642	0.1	26.3	20 *
N-Nitrosodiphenylamine	A	50.00	52.78	0.6783385	0.7160863	0.01	5.6	20
N-Nitroso-di-n-propylamine	A	50.00	50.14	0.977041	0.9798359	0.5	0.3	20
Pentachlorophenol	A	50.00	59.99	0.1662584	0.1994857	0.05	20.0	20
Phenanthrene	A	50.00	49.99	1.082295	1.082109	0.7	-0.02	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CC1E.D	Calibration Date:	09/11/12 10:38
Sequence:	2K31903	Injection Date:	11/13/12
Lab Sample ID:	2K31903-CCV1	Injection Time:	18:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	54.78	1.701202	1.863904	0.8	9.6	20
Pyrene	A	50.00	53.68	1.182005	1.269122	0.6	7.4	20
2,4,6-Trichlorophenol	A	50.00	53.68	0.3893444	0.4180005	0.2	7.4	20
2,4,5-Trichlorophenol	A	50.00	54.40	0.3894227	0.4237277	0.2	8.8	20
2-Fluorobiphenyl	A	50.00	51.34	1.269863	1.303844	0.01	2.7	20
2-Fluorophenol	A	100.0	114.1	1.119802	1.277863	0.01	14.1	20
Nitrobenzene-d5	A	50.00	52.88	0.3989519	0.4218979	0.01	5.8	20
Phenol-d6	A	100.0	109.0	1.476584	1.610257	0.01	9.1	20
Terphenyl-d14	A	50.00	61.92	0.755263	0.9353788	0.01	23.8	20 *
2,4,6-Tribromophenol	A	100.0	114.6	0.1129158	0.1294074	0.01	14.6	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CC2E.D	Calibration Date:	09/11/12 10:38
Sequence:	2K31903	Injection Date:	11/13/12
Lab Sample ID:	2K31903-CCV2	Injection Time:	19:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	48.74	1.761778	1.717524	0.01	-2.5	20
Atrazine	A	50.00	54.39	0.2286444	0.2487348	0.01	8.8	20
Benzaldehyde	A	50.00	56.88	0.9974323	1.13466	0.01	13.8	20
Benzidine	A	50.00	65.87	0.650866	0.8574204	0.01	31.7	20 *
1,1-Biphenyl	A	50.00	48.28	1.358172	1.311412	0.01	-3.4	20
Caprolactam	A	50.00	63.56	0.1054972	0.1341143	0.01	27.1	20 *
3,3'-Dichlorobenzidine	A	50.00	61.27	0.3990372	0.4889853	0.01	22.5	20 *

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32014	Injection Date:	11/14/12
Lab Sample ID:	2K32014-CCV1	Injection Time:	12:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	48.24	1.10566	1.066693	0.9	-3.5	20
Acenaphthylene	A	50.00	49.90	1.65984	1.656671	0.9	-0.2	20
Anthracene	A	50.00	52.15	1.081887	1.128328	0.7	4.3	20
Benzo(a)anthracene	A	50.00	53.91	1.096178	1.181982	0.8	7.8	20
Benzo(a)pyrene	A	50.00	55.30	1.020199	1.128371	0.7	10.6	20
Benzo(b)fluoranthene	A	50.00	60.46	1.062636	1.285024	0.7	20.9	20 *
Benzo(g,h,i)perylene	A	50.00	55.66	0.9945587	1.107155	0.5	11.3	20
Benzoic acid	L	50.00	54.98	0.2585828	0.3207258	0.01	10.0	20
Benzo(k)fluoranthene	A	50.00	44.83	1.300594	1.166081	0.7	-10.3	20
4-Bromophenyl-phenylether	A	50.00	52.97	0.2362641	0.2503114	0.1	5.9	20
Butylbenzylphthalate	A	50.00	56.48	0.5337897	0.6029536	0.01	13.0	20
Carbazole	A	50.00	54.32	1.029924	1.119007	0.01	8.6	20
4-Chloro-3-methylphenol	A	50.00	53.35	0.3241539	0.3458679	0.2	6.7	20
4-Chloroaniline	A	50.00	54.71	0.4387603	0.480112	0.01	9.4	20
Bis(2-chloroethoxy)methane	A	50.00	51.70	0.4361706	0.4510304	0.3	3.4	20
Bis(2-chloroethyl)ether	A	50.00	55.26	1.284228	1.419344	0.7	10.5	20
2,2'-Oxybis-1-chloropropane	A	50.00	53.30	1.662963	1.772704	0.01	6.6	20
2-Chloronaphthalene	A	50.00	49.91	1.10867	1.106589	0.8	-0.2	20
2-Chlorophenol	A	50.00	57.86	1.266695	1.465838	0.8	15.7	20
4-Chlorophenyl phenyl ether	A	50.00	48.59	0.6443488	0.6261875	0.4	-2.8	20
Chrysene	A	50.00	49.72	1.072128	1.066081	0.7	-0.6	20
Dibenz(a,h)anthracene	A	50.00	56.34	0.968097	1.09089	0.4	12.7	20
Dibenzofuran	A	50.00	49.77	1.531191	1.524107	0.8	-0.5	20
Di-n-butylphthalate	A	50.00	53.40	1.117323	1.193287	0.01	6.8	20
2,4-Dichlorophenol	A	50.00	54.24	0.3172443	0.344182	0.2	8.5	20
Diethylphthalate	A	50.00	47.26	1.246346	1.178099	0.01	-5.5	20
2,4-Dimethylphenol	A	50.00	51.21	0.3802932	0.3895176	0.2	2.4	20
Dimethyl phthalate	A	50.00	49.09	1.25703	1.234206	0.01	-1.8	20
4,6-Dinitro-2-methylphenol	L	50.00	60.33	0.1376067	0.1905519	0.01	20.7	20 *

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32014	Injection Date:	11/14/12
Lab Sample ID:	2K32014-CCV1	Injection Time:	12:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2,4-Dinitrophenol	L	50.00	59.25	0.1586589	0.230124	0.05	18.5	20	
2,4-Dinitrotoluene	A	50.00	54.15	0.4130027	0.4473006	0.2	8.3	20	
2,6-Dinitrotoluene	A	50.00	54.54	0.3035821	0.3311539	0.2	9.1	20	
Di-n-octylphthalate	A	50.00	59.15	1.122715	1.328206	0.01	18.3	20	
1,2-Diphenylhydrazine	A	50.00	49.49	0.7871146	0.7791231	0.01	-1.0	20	
Bis(2-ethylhexyl)phthalate	A	50.00	56.89	0.6994262	0.7958351	0.01	13.8	20	
Fluoranthene	A	50.00	53.00	1.164281	1.234176	0.6	6.0	20	
Fluorene	A	50.00	48.46	1.322497	1.281736	0.9	-3.1	20	
Hexachlorobenzene	A	50.00	52.86	0.2557988	0.2704272	0.1	5.7	20	
Hexachlorobutadiene	A	50.00	48.94	0.2021383	0.1978641	0.01	-2.1	20	
Hexachlorocyclopentadiene	A	50.00	49.31	0.3471121	0.3423018	0.05	-1.4	20	
Hexachloroethane	A	50.00	50.55	0.606057	0.6127173	0.3	1.1	20	
Indeno(1,2,3-cd)pyrene	A	50.00	54.40	1.18309	1.287177	0.5	8.8	20	
Isophorone	A	50.00	50.71	0.694789	0.7046467	0.4	1.4	20	
1-Methylnaphthalene	A	50.00	51.18	0.5852855	0.5991118	0.01	2.4	20	
2-Methylnaphthalene	A	50.00	51.44	0.6105231	0.6280455	0.4	2.9	20	
2-Methylphenol	A	50.00	57.19	1.15948	1.326269	0.7	14.4	20	
3-Methylphenol/4-Methylphenol	A	50.00	57.95	1.219104	1.413032		15.9	20	
Naphthalene	A	50.00	50.32	0.9922437	0.998702	0.7	0.7	20	
4-Nitroaniline	A	50.00	54.32	0.3237232	0.3517186	0.01	8.6	20	
3-Nitroaniline	A	50.00	58.47	0.3275855	0.3830724	0.01	16.9	20	
2-Nitroaniline	A	50.00	54.09	0.3368371	0.3644168	0.01	8.2	20	
Nitrobenzene	A	50.00	51.13	0.4042427	0.4133875	0.2	2.3	20	
4-Nitrophenol	A	50.00	51.71	0.263969	0.2730073	0.05	3.4	20	
2-Nitrophenol	A	50.00	61.92	0.1877485	0.232496	0.1	23.8	20	*
N-Nitrosodiphenylamine	A	50.00	53.06	0.6783385	0.7198479	0.01	6.1	20	
N-Nitroso-di-n-propylamine	A	50.00	51.87	0.977041	1.013615	0.5	3.7	20	
Pentachlorophenol	A	50.00	55.71	0.1662584	0.1852505	0.05	11.4	20	
Phenanthrene	A	50.00	50.71	1.082295	1.097686	0.7	1.4	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32014	Injection Date:	11/14/12
Lab Sample ID:	2K32014-CCV1	Injection Time:	12:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	55.13	1.701202	1.875886	0.8	10.3	20
Pyrene	A	50.00	52.59	1.182005	1.243249	0.6	5.2	20
2,4,6-Trichlorophenol	A	50.00	54.59	0.3893444	0.4251115	0.2	9.2	20
2,4,5-Trichlorophenol	A	50.00	53.04	0.3894227	0.4131431	0.2	6.1	20
2-Fluorobiphenyl	A	50.00	50.96	1.269863	1.294119	0.01	1.9	20
2-Fluorophenol	A	100.0	113.5	1.119802	1.270881	0.01	13.5	20
Nitrobenzene-d5	A	50.00	51.79	0.3989519	0.4132396	0.01	3.6	20
Phenol-d6	A	100.0	108.9	1.476584	1.607863	0.01	8.9	20
Terphenyl-d14	A	50.00	61.78	0.755263	0.9332744	0.01	23.6	20 *
2,4,6-Tribromophenol	A	100.0	110.9	0.1129158	0.1251836	0.01	10.9	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32014	Injection Date:	11/14/12
Lab Sample ID:	2K32014-CCV2	Injection Time:	12:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	49.97	1.761778	1.760629	0.01	-0.07	20
Atrazine	A	50.00	54.29	0.2286444	0.2482533	0.01	8.6	20
Benzaldehyde	A	50.00	58.14	0.9974323	1.159931	0.01	16.3	20
Benzidine	A	50.00	63.98	0.650866	0.832891	0.01	28.0	20 *
1,1-Biphenyl	A	50.00	48.90	1.358172	1.328454	0.01	-2.2	20
Caprolactam	A	50.00	63.06	0.1054972	0.1330455	0.01	26.1	20 *
3,3'-Dichlorobenzidine	A	50.00	60.70	0.3990372	0.4844644	0.01	21.4	20 *

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32413	Injection Date:	11/16/12
Lab Sample ID:	2K32413-CCV1	Injection Time:	16:35

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	47.16	1.10566	1.042974	0.9	-5.7	20
Acenaphthylene	A	50.00	49.38	1.65984	1.639215	0.9	-1.2	20
Anthracene	A	50.00	50.73	1.081887	1.097768	0.7	1.5	20
Benzo(a)anthracene	A	50.00	51.98	1.096178	1.139658	0.8	4.0	20
Benzo(a)pyrene	A	50.00	52.42	1.020199	1.069649	0.7	4.8	20
Benzo(b)fluoranthene	A	50.00	57.19	1.062636	1.215512	0.7	14.4	20
Benzo(g,h,i)perylene	A	50.00	53.10	0.9945587	1.056264	0.5	6.2	20
Benzoic acid	L	50.00	53.08	0.2585828	0.3087425	0.01	6.2	20
Benzo(k)fluoranthene	A	50.00	42.74	1.300594	1.111768	0.7	-14.5	20
4-Bromophenyl-phenylether	A	50.00	51.23	0.2362641	0.2420969	0.1	2.5	20
Butylbenzylphthalate	A	50.00	54.14	0.5337897	0.5779984	0.01	8.3	20
Carbazole	A	50.00	52.29	1.029924	1.077188	0.01	4.6	20
4-Chloro-3-methylphenol	A	50.00	52.08	0.3241539	0.3376342	0.2	4.2	20
4-Chloroaniline	A	50.00	52.91	0.4387603	0.4643131	0.01	5.8	20
Bis(2-chloroethoxy)methane	A	50.00	51.16	0.4361706	0.4463096	0.3	2.3	20
Bis(2-chloroethyl)ether	A	50.00	53.43	1.284228	1.372456	0.7	6.9	20
2,2'-Oxybis-1-chloropropane	A	50.00	52.44	1.662963	1.744234	0.01	4.9	20
2-Chloronaphthalene	A	50.00	48.26	1.10867	1.07008	0.8	-3.5	20
2-Chlorophenol	A	50.00	54.56	1.266695	1.382305	0.8	9.1	20
4-Chlorophenyl phenyl ether	A	50.00	47.10	0.6443488	0.6069215	0.4	-5.8	20
Chrysene	A	50.00	48.07	1.072128	1.030755	0.7	-3.9	20
Dibenz(a,h)anthracene	A	50.00	53.83	0.968097	1.042209	0.4	7.7	20
Dibenzofuran	A	50.00	48.70	1.531191	1.491556	0.8	-2.6	20
Di-n-butylphthalate	A	50.00	52.12	1.117323	1.164612	0.01	4.2	20
2,4-Dichlorophenol	A	50.00	52.52	0.3172443	0.3332281	0.2	5.0	20
Diethylphthalate	A	50.00	45.43	1.246346	1.132477	0.01	-9.1	20
2,4-Dimethylphenol	A	50.00	50.14	0.3802932	0.3813487	0.2	0.3	20
Dimethyl phthalate	A	50.00	47.06	1.25703	1.183244	0.01	-5.9	20
4,6-Dinitro-2-methylphenol	L	50.00	57.34	0.1376067	0.1804749	0.01	14.7	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32413	Injection Date:	11/16/12
Lab Sample ID:	2K32413-CCV1	Injection Time:	16:35

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2,4-Dinitrophenol	L	50.00	55.81	0.1586589	0.2151905	0.05	11.6	20	
2,4-Dinitrotoluene	A	50.00	51.38	0.4130027	0.424365	0.2	2.8	20	
2,6-Dinitrotoluene	A	50.00	51.97	0.3035821	0.3155244	0.2	3.9	20	
Di-n-octylphthalate	A	50.00	55.40	1.122715	1.244094	0.01	10.8	20	
1,2-Diphenylhydrazine	A	50.00	49.36	0.7871146	0.77697	0.01	-1.3	20	
Bis(2-ethylhexyl)phthalate	A	50.00	55.54	0.6994262	0.7769672	0.01	11.1	20	
Fluoranthene	A	50.00	50.74	1.164281	1.181484	0.6	1.5	20	
Fluorene	A	50.00	46.78	1.322497	1.237389	0.9	-6.4	20	
Hexachlorobenzene	A	50.00	49.60	0.2557988	0.2537811	0.1	-0.8	20	
Hexachlorobutadiene	A	50.00	47.10	0.2021383	0.1904331	0.01	-5.8	20	
Hexachlorocyclopentadiene	A	50.00	45.44	0.3471121	0.3154416	0.05	-9.1	20	
Hexachloroethane	A	50.00	48.39	0.606057	0.5865818	0.3	-3.2	20	
Indeno(1,2,3-cd)pyrene	A	50.00	51.79	1.18309	1.225454	0.5	3.6	20	
Isophorone	A	50.00	49.66	0.694789	0.6900009	0.4	-0.7	20	
1-Methylnaphthalene	A	50.00	49.33	0.5852855	0.5774173	0.01	-1.3	20	
2-Methylnaphthalene	A	50.00	49.84	0.6105231	0.6085232	0.4	-0.3	20	
2-Methylphenol	A	50.00	55.78	1.15948	1.293601	0.7	11.6	20	
3-Methylphenol/4-Methylphenol	A	50.00	55.88	1.219104	1.362582		11.8	20	
Naphthalene	A	50.00	49.17	0.9922437	0.9757313	0.7	-1.7	20	
4-Nitroaniline	A	50.00	52.39	0.3237232	0.339212	0.01	4.8	20	
3-Nitroaniline	A	50.00	55.29	0.3275855	0.3622328	0.01	10.6	20	
2-Nitroaniline	A	50.00	53.41	0.3368371	0.3597944	0.01	6.8	20	
Nitrobenzene	A	50.00	48.96	0.4042427	0.3958092	0.2	-2.1	20	
4-Nitrophenol	A	50.00	51.21	0.263969	0.2703493	0.05	2.4	20	
2-Nitrophenol	A	50.00	60.20	0.1877485	0.2260453	0.1	20.4	20	*
N-Nitrosodiphenylamine	A	50.00	51.42	0.6783385	0.6976756	0.01	2.9	20	
N-Nitroso-di-n-propylamine	A	50.00	48.92	0.977041	0.9560533	0.5	-2.1	20	
Pentachlorophenol	A	50.00	53.23	0.1662584	0.176993	0.05	6.5	20	
Phenanthrene	A	50.00	49.15	1.082295	1.063826	0.7	-1.7	20	

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32413	Injection Date:	11/16/12
Lab Sample ID:	2K32413-CCV1	Injection Time:	16:35

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.00	53.36	1.701202	1.815676	0.8	6.7	20
Pyrene	A	50.00	51.38	1.182005	1.214769	0.6	2.8	20
2,4,6-Trichlorophenol	A	50.00	51.90	0.3893444	0.4041348	0.2	3.8	20
2,4,5-Trichlorophenol	A	50.00	50.76	0.3894227	0.3953099	0.2	1.5	20
2-Fluorobiphenyl	A	50.00	49.81	1.269863	1.265097	0.01	-0.4	20
2-Fluorophenol	A	100.0	110.5	1.119802	1.237472	0.01	10.5	20
Nitrobenzene-d5	A	50.00	51.31	0.3989519	0.4094355	0.01	2.6	20
Phenol-d6	A	100.0	104.8	1.476584	1.547449	0.01	4.8	20
Terphenyl-d14	A	50.00	59.38	0.755263	0.8969754	0.01	18.8	20
2,4,6-Tribromophenol	A	100.0	107.7	0.1129158	0.121632	0.01	7.7	20

CONTINUING CALIBRATION CHECK

SW8270D

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	2261001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	09/11/12 10:38
Sequence:	2K32413	Injection Date:	11/16/12
Lab Sample ID:	2K32413-CCV2	Injection Time:	17:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetophenone	A	50.00	52.33	1.761778	1.843979	0.01	4.7	20
Atrazine	A	50.00	52.76	0.2286444	0.241261	0.01	5.5	20
Benzaldehyde	A	50.00	59.92	0.9974323	1.195382	0.01	19.8	20
Benzidine	A	50.00	66.09	0.650866	0.8603295	0.01	32.2	20 *
1,1-Biphenyl	A	50.00	47.83	1.358172	1.299357	0.01	-4.3	20
Caprolactam	A	50.00	62.74	0.1054972	0.1323819	0.01	25.5	20 *
3,3'-Dichlorobenzidine	A	50.00	59.29	0.3990372	0.4731822	0.01	18.6	20

HOLDING TIME SUMMARY

SW8270D

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0786	10/30/12 15:41	10/31/12 08:30	11/05/12 14:30	5.91	7.00	11/17/12 00:25	11.41	40.00	
GW0787	10/30/12 13:25	10/31/12 08:30	11/05/12 14:30	6.00	7.00	11/17/12 00:53	11.43	40.00	
GW0788	10/30/12 11:05	10/31/12 08:30	11/05/12 14:30	6.10	7.00	11/17/12 01:20	11.45	40.00	
GW0848	10/29/12 16:50	10/31/12 08:30	11/02/12 08:37	3.62	7.00	11/16/12 19:21	14.45	40.00	
GW0849	10/29/12 14:00	10/31/12 08:30	11/02/12 08:37	3.73	7.00	11/16/12 19:48	14.47	40.00	
GW0850	10/29/12 11:17	10/31/12 08:30	11/02/12 08:37	3.85	7.00	11/16/12 21:12	14.52	40.00	
GW0755	11/01/12 12:13	11/02/12 08:15	11/08/12 09:35	6.85	7.00	11/14/12 14:57	6.22	40.00	
GW0762	11/01/12 15:33	11/02/12 08:15	11/08/12 09:35	6.71	7.00	11/14/12 15:25	6.24	40.00	
GW0763	11/01/12 09:34	11/02/12 08:15	11/08/12 09:35	6.96	7.00	11/14/12 15:52	6.26	40.00	
GW0802	10/31/12 15:32	11/02/12 08:15	11/07/12 09:45	6.72	7.00	11/13/12 23:01	6.55	40.00	
GW0803	10/31/12 13:17	11/02/12 08:15	11/07/12 09:45	6.81	7.00	11/13/12 23:28	6.57	40.00	
GW0804	10/31/12 10:51	11/02/12 08:15	11/07/12 09:45	6.91	7.00	11/13/12 23:55	6.59	40.00	
GW0812	10/31/12 16:27	11/02/12 08:15	11/07/12 09:45	6.68	7.00	11/14/12 00:23	6.61	40.00	
GW0813	10/31/12 13:44	11/02/12 08:15	11/07/12 09:45	6.79	7.00	11/14/12 00:51	6.63	40.00	
GW0814	10/31/12 11:21	11/02/12 08:15	11/07/12 09:45	6.89	7.00	11/14/12 01:18	6.65	40.00	
GW0832	11/01/12 13:37	11/02/12 08:15	11/07/12 09:45	5.80	7.00	11/14/12 01:46	6.67	40.00	
GW0833	11/01/12 11:17	11/02/12 08:15	11/08/12 09:35	6.89	7.00	11/14/12 16:20	6.28	40.00	

PREPARATION BENCH SHEET

2K02001

Empirical Laboratories, LLC

Printed: 11/16/2012 3:20:04PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210269-14	J	SMS_PAH_8270D_LOW	11/02/2012	1080	1				500	NA	also log BNA reg
1210269-14	J	SMS_BNA_8270D_3510_REG	11/02/2012	1080	1				500	NA	also log in PAH low
1210269-15	H	SMS_BNA_8270D_3510_REG	11/02/2012	1040	1				500	NA	also log in PAH low
1210269-15	H	SMS_PAH_8270D_LOW	11/02/2012	1040	1				500	NA	also log BNA reg
1210281-02	D	SMS_PAH_8270D_LOW	11/02/2012	1080	1				500	NA	
1210281-03	D	SMS_PAH_8270D_LOW	11/02/2012	1080	1				500	NA	
1210281-04	D	SMS_PAH_8270D_LOW	11/02/2012	1060	1				500	NA	
1210281-05	D	SMS_PAH_8270D_LOW	11/02/2012	1080	1				500	NA	
1210281-06	D	SMS_PAH_8270D_LOW	11/02/2012	1080	1				500	NA	
1210289-01	H	SMS_PAH_8270D_LOW	11/02/2012	1080	1				500	NA	OLR
1210289-01RE1	H	SMS_PAH_8270D_LOW	11/02/2012	1080	1				500	NA	Added 11/14/2012 by MEC
1210289-02	G	SMS_PAH_8270D_LOW	11/02/2012	1080	1				500	NA	
1210289-03	G	SMS_PAH_8270D_LOW	11/02/2012	1080	1				500	NA	
1210289-04	G	SMS_PAH_8270D_LOW	11/02/2012	1060	1				500	NA	
1210289-05	H	SMS_PAH_8270D_LOW	11/02/2012	1060	1				500	NA	
1210289-06	H	SMS_PAH_8270D_LOW	11/02/2012	1080	1				500	NA	
1210289-07	G	SMS_PAH_8270D_LOW	11/02/2012	500	0.5				250	NA	
1210292-07	G	SMS_BNA_8270D_3510_REG	11/02/2012	1080	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1210292-09	P	SMS_BNA_8270D_3510_REG	11/02/2012	1000	1				500	NA	MS/MSD, requires 3-Methlphenol/4-Methylphenol/Naphthalene
1210292-09	P	SMS_PAH_8270D_LOW	11/02/2012	1000	1				500	NA	Added for BatchQC in: 2K02001
1210292-11	O	SMS_BNA_8270D_3510_REG	11/02/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1210296-02	D	SMS_BNA_8270D_3510_REG	11/02/2012	1060	1				500	NA	see versions

PREPARATION BENCH SHEET

2K02001

Empirical Laboratories, LLC

Printed: 11/16/2012 3:20:04PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210296-02	D	SMS_PAH_8270D_LOW	11/02/2012	1060	1				500	NA	see versions
1210296-03	D	SMS_BNA_8270D_3510_REG	11/02/2012	1040	1				500	NA	see versions
1210296-03	D	SMS_PAH_8270D_LOW	11/02/2012	1040	1				500	NA	see versions
1211013-01	A	SMS_BNA_8270D_3510_REG	11/02/2012	1080	1				500	NA	
2K02001-BLK1		QC	11/02/2012	1000	1				500	NA	
2K02001-BLK2		QC	11/02/2012	1000	1				500	NA	Added 11/14/2012 by MEC
2K02001-BS1		QC	11/02/2012	1000	1	12J0337		500	500	NA	
2K02001-BS2		QC	11/02/2012	1000	1	12J0580		1000	500	NA	
2K02001-BSD2		QC	11/02/2012	1000	1	12J0580		1000	500	NA	
2K02001-MS1		QC	11/02/2012	1000	1	12J0337	1210292-09	500	500	NA	
2K02001-MSD1		QC	11/02/2012	1000	1	12J0337	1210292-09	500	500	NA	

Reagents Used:

Standard	Description
12J0551	10N NaOH for Extractions
12J0552	1:1 H2SO4/DIH2O
12J0575	Sodium Sulfate Anhydrous
12J0658	Methylene Chloride

PREPARATION BENCH SHEET

2K05004

Empirical Laboratories, LLC

Printed: 11/26/2012 2:23:41PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210289-08	H	SMS_PAH_8270D_LOW	11/05/2012	1060	1				500	NA	
1210289-09	G	SMS_PAH_8270D_LOW	11/05/2012	1080	1				500	NA	
1210292-01	P	SMS_BNA_8270D_3510_REG	11/05/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1210292-03	O	SMS_BNA_8270D_3510_REG	11/05/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1210292-05	P	SMS_BNA_8270D_3510_REG	11/05/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211007-01	G	SMS_PAH_8270D_LOW	11/05/2012	1080	1				500	NA	
1211007-02	H	SMS_PAH_8270D_LOW	11/05/2012	1080	1				500	NA	
1211007-03	H	SMS_PAH_8270D_LOW	11/05/2012	1080	1				500	NA	
1211007-04	G	SMS_PAH_8270D_LOW	11/05/2012	1080	1				500	NA	
1211007-05	H	SMS_PAH_8270D_LOW	11/05/2012	1080	1				500	NA	
1211007-06	H	SMS_PAH_8270D_LOW	11/05/2012	1080	1				500	NA	
1211007-07	H	SMS_PAH_8270D_LOW	11/05/2012	1080	1				500	NA	
1211012-01	B	SMS_BNA_8270D_3510_REG	11/05/2012	1000	1				500	NA	
1211012-02	A	SMS_BNA_8270D_3510_REG	11/05/2012	1000	1				500	NA	
1211012-03	B	SMS_BNA_8270D_3510_REG	11/05/2012	1000	1				500	NA	
1211012-04	B	SMS_BNA_8270D_3510_REG	11/05/2012	1000	1				500	NA	
2K05004-BLK1		QC	11/05/2012	1000	1				500	NA	
2K05004-BLK2		QC	11/05/2012	1000	1				500	NA	Added 11/15/2012 by MEC
2K05004-BS1		QC	11/05/2012	1000	1	12J0337		500	500	NA	
2K05004-BS2		QC	11/05/2012	1000	1	12K0406		1000	500	NA	
2K05004-BSD1		QC	11/05/2012	1000	1	12J0337		500	500	NA	
2K05004-BSD2		QC	11/05/2012	1000	1	12K0406		1000	500	NA	

PREPARATION BENCH SHEET

2K05004

Empirical Laboratories, LLC

Printed: 11/26/2012 2:23:41PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description
12J0552	1:1 H2SO4/DIH2O
12J0575	Sodium Sulfate Anhydrous
12J0658	Methylene Chloride
12K0040	10N NaOH for Extractions

PREPARATION BENCH SHEET

2K07006

Empirical Laboratories, LLC

Printed: 11/13/2012 12:25:41PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211018-01	G	SMS_PAH_8270D_LOW	11/07/2012	1080	1				500	NA	
1211018-02	H	SMS_PAH_8270D_LOW	11/07/2012	1080	1				500	NA	
1211018-03	H	SMS_PAH_8270D_LOW	11/07/2012	1080	1				500	NA	
1211018-04	G	SMS_PAH_8270D_LOW	11/07/2012	1080	1				500	NA	
1211018-05	G	SMS_PAH_8270D_LOW	11/07/2012	1060	1				500	NA	
1211019-01	B	SMS_PAH_8270D_LOW	11/07/2012	1020	1				500	NA	
1211019-02	A	SMS_PAH_8270D_LOW	11/07/2012	1080	1				500	NA	
1211023-01	C	SMS_BNA_8270D_LOW_3510	11/07/2012	1080	1				500	NA	also log BNA Reg. PAH + PCP, NNDPA, BEHP
1211023-01	C	SMS_BNA_8270D_3510_REG	11/07/2012	1080	1				500	NA	also log BNA Low
1211023-03	C	SMS_BNA_8270D_3510_REG	11/07/2012	1000	1				500	NA	also log BNA Low
1211023-03	C	SMS_BNA_8270D_LOW_3510	11/07/2012	1000	1				500	NA	also log BNA Reg. PAH + PCP, NNDPA, BEHP
1211023-05	B	SMS_BNA_8270D_3510_REG	11/07/2012	1020	1				500	NA	also log BNA Low
1211023-05	B	SMS_BNA_8270D_LOW_3510	11/07/2012	1020	1				500	NA	also log BNA Reg. PAH + PCP, NNDPA, BEHP
1211023-07	B	SMS_BNA_8270D_3510_REG	11/07/2012	1000	1				500	NA	also log BNA Low
1211023-07	B	SMS_BNA_8270D_LOW_3510	11/07/2012	1000	1				500	NA	also log BNA Reg. PAH + PCP, NNDPA, BEHP
1211023-09	C	SMS_BNA_8270D_3510_REG	11/07/2012	1000	1				500	NA	also log BNA Low
1211023-09	C	SMS_BNA_8270D_LOW_3510	11/07/2012	1000	1				500	NA	also log BNA Reg. PAH + PCP, NNDPA, BEHP
1211036-07	P	SMS_BNA_8270D_3510_REG	11/07/2012	1080	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211036-09	N	SMS_BNA_8270D_3510_REG	11/07/2012	1080	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211036-11	P	SMS_BNA_8270D_3510_REG	11/07/2012	1080	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211036-13	N	SMS_BNA_8270D_3510_REG	11/07/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211036-15	AQ	SMS_BNA_8270D_3510_REG	11/07/2012	1000	1				500	NA	MS/MSD, requires 3-Methlphenol/4-Methylphenol/Naphthalene

PREPARATION BENCH SHEET

2K07006

Empirical Laboratories, LLC

Printed: 11/13/2012 12:25:41PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-15	AQ	SMS_BNA_8270D_LOW_3510	11/07/2012	1000	1				500	NA	Added for BatchQC in: 2K07006
1211036-15	AQ	SMS_PAH_8270D_LOW	11/07/2012	1000	1				500	NA	Added for BatchQC in: 2K07006
1211036-17	O	SMS_BNA_8270D_3510_REG	11/07/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211036-19	AS	SMS_BNA_8270D_LOW_3510	11/07/2012	1000	1				500	NA	Added for BatchQC in: 2K07006
1211036-19	AS	SMS_PAH_8270D_LOW	11/07/2012	1000	1				500	NA	Added for BatchQC in: 2K07006
1211036-19	AS	SMS_BNA_8270D_3510_REG	11/07/2012	1000	1				500	NA	MS/MSD, requires 3-Methlphenol/4-Methylphenol/Naphthalene
2K07006-BLK1		QC	11/07/2012	1000	1				500	NA	
2K07006-BLK2		QC	11/07/2012	1000	1				500	NA	Added 11/12/2012 by MEC
2K07006-BS1		QC	11/07/2012	1000	1	12K0174		500	500	NA	
2K07006-BS2		QC	11/07/2012	1000	1	12J0580		1000	500	NA	
2K07006-BSD2		QC	11/07/2012	1000	1	12J0580		1000	500	NA	
2K07006-MS1		QC	11/07/2012	1000	1	12K0174	1211036-15	500	500	NA	
2K07006-MS2		QC	11/07/2012	1000	1	12K0174	1211036-19	500	500	NA	
2K07006-MSD1		QC	11/07/2012	1000	1	12K0174	1211036-15	500	500	NA	
2K07006-MSD2		QC	11/07/2012	1000	1	12K0174	1211036-19	500	500	NA	

Reagents Used:

Standard	Description
12J0552	1:1 H2SO4/DIH2O
12J0575	Sodium Sulfate Anhydrous
12J0658	Methylene Chloride
12K0040	10N NaOH for Extractions

PREPARATION BENCH SHEET

2K07006

Empirical Laboratories, LLC

Printed: 11/13/2012 12:25:41PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

PREPARATION BENCH SHEET

2K08004

Empirical Laboratories, LLC

Printed: 11/19/2012 1:34:54PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211026-04	I	SMS_PAH_8270D_LOW	11/08/2012	1080	1				500	NA	also log BNA reg
1211026-04	I	SMS_BNA_8270D_3510_REG	11/08/2012	1080	1				500	NA	also log in PAH low
1211026-09	K	SMS_PAH_8270D_LOW	11/08/2012	1080	1				500	NA	also log BNA reg
1211026-09	K	SMS_BNA_8270D_3510_REG	11/08/2012	1080	1				500	NA	also log in PAH low
1211036-01	P	SMS_BNA_8270D_3510_REG	11/08/2012	1020	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211036-03	P	SMS_BNA_8270D_3510_REG	11/08/2012	1020	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211036-05	P	SMS_BNA_8270D_3510_REG	11/08/2012	1040	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211036-21	P	SMS_BNA_8270D_3510_REG	11/08/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211038-04	J	SMS_BNA_8270D_3510_REG	11/08/2012	1080	1				500	NA	also log in PAH low
1211038-04	J	SMS_PAH_8270D_LOW	11/08/2012	1080	1				500	NA	also log BNA reg
1211038-07	I	SMS_PAH_8270D_LOW	11/08/2012	1080	1				500	NA	also log BNA reg
1211038-07	I	SMS_BNA_8270D_3510_REG	11/08/2012	1080	1				500	NA	also log in PAH low
1211043-01	A	SMS_BNA_8270D_3510_REG	11/08/2012	1000	1				500	NA	
1211046-02	H	SMS_BNA_8270D_3510_REG	11/08/2012	1040	1				500	NA	also log in PAH low
1211046-02	H	SMS_PAH_8270D_LOW	11/08/2012	1040	1				500	NA	also log BNA reg
1211046-03	H	SMS_PAH_8270D_LOW	11/08/2012	1080	1				500	NA	also log BNA reg
1211046-03	H	SMS_BNA_8270D_3510_REG	11/08/2012	1080	1				500	NA	also log in PAH low
1211066-01	O	SMS_BNA_8270D_3510_REG	11/08/2012	1080	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211066-03	N	SMS_BNA_8270D_3510_REG	11/08/2012	1020	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211066-05	AP	SMS_PAH_8270D_LOW	11/08/2012	1000	1				500	NA	Added for BatchQC in: 2K08004
1211066-05	AP	SMS_BNA_8270D_3510_REG	11/08/2012	1000	1				500	NA	MS/MSD, requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211066-07	N	SMS_BNA_8270D_3510_REG	11/08/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene

PREPARATION BENCH SHEET

2K08004

Empirical Laboratories, LLC

Printed: 11/19/2012 1:34:54PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12K0006**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211066-09	O	SMS_BNA_8270D_3510_REG	11/08/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211066-11	N	SMS_BNA_8270D_3510_REG	11/08/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
1211075-02	P	SMS_BNA_8270D_3510_REG	11/08/2012	1000	1				500	NA	requires 3-Methlphenol/4-Methylphenol/Naphthalene
2K08004-BLK1		QC	11/08/2012	1000	1				500	NA	
2K08004-BS1		QC	11/08/2012	1000	1	12K0174		500	500	NA	
2K08004-BS2		QC	11/08/2012	1000	1	12J0580		1000	500	NA	
2K08004-BSD2		QC	11/08/2012	1000	1	12J0580		1000	500	NA	
2K08004-MS1		QC	11/08/2012	1000	1	12K0174	1211066-05	500	500	NA	
2K08004-MSD1		QC	11/08/2012	1020	1	12K0174	1211066-05	500	500	NA	

Reagents Used:

Standard	Description
12J0552	1:1 H2SO4/DIH2O
12J0575	Sodium Sulfate Anhydrous
12J0658	Methylene Chloride
12K0040	10N NaOH for Extractions

Data for SW8011 Forms

Sample Extraction Data

Prep Method: EDB-SW8011

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1210292-01 [GW0786]	2K07018	35.00/35.00	37.6	35.0	1.00			11/07/12
1210292-03 [GW0787]	2K07018	35.00/35.00	36.8	35.0	1.00			11/07/12
1210292-05 [GW0788]	2K07018	35.00/35.00	37.5	35.0	1.00			11/07/12
1210292-07 [GW0848]	2K07018	35.00/35.00	37.1	35.0	1.00			11/07/12
1210292-09 [GW0849]	2K07018	35.00/35.00	37.0	35.0	1.00			11/07/12
1210292-11 [GW0850]	2K07018	35.00/35.00	37.7	35.0	1.00			11/07/12
1211036-01 [GW0755]	2K07018	35.00/35.00	37.1	35.0	1.00			11/07/12
1211036-03RE2 [GW0762]	2K07018	35.00/35.00	37.2	35.0	200.00			11/07/12
1211036-05 [GW0763]	2K07018	35.00/35.00	37.0	35.0	1.00			11/07/12
1211036-07 [GW0802]	2K07018	35.00/35.00	36.9	35.0	1.00			11/07/12
1211036-09 [GW0803]	2K07018	35.00/35.00	37.1	35.0	1.00			11/07/12
1211036-11 [GW0804]	2K07018	35.00/35.00	37.4	35.0	1.00			11/07/12
1211036-13RE2 [GW0812]	2K07018	35.00/35.00	36.9	35.0	250.00			11/07/12
1211036-15 [GW0813]	2K07018	35.00/35.00	36.9	35.0	1.00			11/07/12
1211036-17 [GW0814]	2K07018	35.00/35.00	36.6	35.0	1.00			11/07/12
1211036-19 [GW0832]	2K07018	35.00/35.00	37.5	35.0	1.00			11/07/12
1211036-21 [GW0833]	2K07018	35.00/35.00	37.7	35.0	1.00			11/07/12

ANALYSIS DATA SHEET

GW0786

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-01	File ID:	007F0101.D
Sampled:	10/30/12 15:41	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 16:30
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.244	0.00931	0.0186	0.0279	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.851	1.619	87.4	30 - 130	
1,3-Dibromopropane [2C]	1.851	1.415	76.4	30 - 130	Y

ANALYSIS DATA SHEET

GW0787

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-03	File ID:	008F0101.D
Sampled:	10/30/12 13:25	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 16:51
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.413	0.00951	0.0190	0.0285	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.891	1.813	95.9	30 - 130	
1,3-Dibromopropane [2C]	1.891	1.568	82.9	30 - 130	Y

ANALYSIS DATA SHEET

GW0788

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-05	File ID:	009F0101.D
Sampled:	10/30/12 11:05	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 17:12
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.312	0.00934	0.0187	0.0280	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.857	1.746	94.0	30 - 130	
1,3-Dibromopropane [2C]	1.857	1.515	81.6	30 - 130	Y

ANALYSIS DATA SHEET

GW0848

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-07	File ID:	010R0101.D
Sampled:	10/29/12 16:50	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 17:33
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.0650	0.00942	0.0188	0.0283	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.874	1.683	89.8	30 - 130	
1,3-Dibromopropane [2C]	1.874	1.539	82.1	30 - 130	Y

ANALYSIS DATA SHEET

GW0849

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-09	File ID:	011F0101.D
Sampled:	10/29/12 14:00	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 17:54
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.234	0.00946	0.0189	0.0284	N

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.882	1.591	84.6	30 - 130	
1,3-Dibromopropane [2C]	1.882	1.300	69.1	30 - 130	Y

ANALYSIS DATA SHEET

GW0850

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-11	File ID:	014R0101.D
Sampled:	10/29/12 11:17	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 18:58
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00929	0.0186	0.0279	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.848	1.597	86.4	30 - 130	
1,3-Dibromopropane [2C]	1.848	1.368	74.0	30 - 130	Y

ANALYSIS DATA SHEET

GW0755

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-01	File ID:	015R0101.D
Sampled:	11/01/12 12:13	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 19:19
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00942	0.0188	0.0283	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.874	1.711	91.3	30 - 130	
1,3-Dibromopropane [2C]	1.874	1.462	78.0	30 - 130	Y

ANALYSIS DATA SHEET

GW0762

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-03RE2	File ID:	003F0101.D
Sampled:	11/01/12 15:33	Prepared:	11/07/12 09:10	Analyzed:	11/14/12 13:23
Solids:		Preparation:	EDB	Dilution:	200

Batch: 2K07018 Sequence: 2K32302 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	120	1.88	3.77	5.65	D

ANALYSIS DATA SHEET

GW0763

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-05	File ID:	018R0101.D
Sampled:	11/01/12 09:34	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 20:23
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.0144	0.00946	0.0189	0.0284	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.880	1.681	89.4	30 - 130	
1,3-Dibromopropane [2C]	1.880	1.325	70.5	30 - 130	Y

ANALYSIS DATA SHEET

GW0802

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-07	File ID:	019R0101.D
Sampled:	10/31/12 15:32	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 20:44
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00949	0.0190	0.0285	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.887	1.712	90.7	30 - 130	
1,3-Dibromopropane [2C]	1.887	1.450	76.9	30 - 130	Y

ANALYSIS DATA SHEET

GW0803

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-09	File ID:	020F0101.D
Sampled:	10/31/12 13:17	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 21:05
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00943	0.0189	0.0283	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.876	1.558	83.1	30 - 130	
1,3-Dibromopropane [2C]	1.876	1.310	69.8	30 - 130	Y

ANALYSIS DATA SHEET

GW0804

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-11	File ID:	021R0101.D
Sampled:	10/31/12 10:51	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 21:27
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00936	0.0187	0.0281	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.861	1.609	86.4	30 - 130	
1,3-Dibromopropane [2C]	1.861	1.357	72.9	30 - 130	Y

ANALYSIS DATA SHEET

GW0812

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-13RE2	File ID:	004R0101.D
Sampled:	10/31/12 16:27	Prepared:	11/07/12 09:10	Analyzed:	11/14/12 13:45
Solids:		Preparation:	EDB	Dilution:	250

Batch: 2K07018 Sequence: 2K32302 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	207	2.37	4.74	7.12	D

ANALYSIS DATA SHEET

GW0813

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-15	File ID:	023R0101.D
Sampled:	10/31/12 13:44	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 22:09
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00949	0.0190	0.0285	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.888	1.645	87.1	30 - 130	
1,3-Dibromopropane [2C]	1.888	1.376	72.9	30 - 130	Y

ANALYSIS DATA SHEET

GW0814

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-17	File ID:	026R0101.D
Sampled:	10/31/12 11:21	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 23:12
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00957	0.0191	0.0287	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.904	1.641	86.2	30 - 130	
1,3-Dibromopropane [2C]	1.904	1.402	73.6	30 - 130	Y

ANALYSIS DATA SHEET

GW0832

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-19	File ID:	027F0101.D
Sampled:	11/01/12 13:37	Prepared:	11/07/12 09:10	Analyzed:	11/07/12 23:34
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00933	0.0187	0.0280	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.855	1.624	87.6	30 - 130	
1,3-Dibromopropane [2C]	1.855	1.399	75.4	30 - 130	Y

ANALYSIS DATA SHEET

GW0833

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-21	File ID:	030F0101.D
Sampled:	11/01/12 11:17	Prepared:	11/07/12 09:10	Analyzed:	11/08/12 00:38
Solids:		Preparation:	EDB	Dilution:	1

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00929	0.0186	0.0279	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.848	1.629	88.2	30 - 130	
1,3-Dibromopropane [2C]	1.848	1.424	77.1	30 - 130	Y

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31606	Instrument:	GL-ECD2
		Calibration:	2292002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31606-CCV1) ug/L				Lab File ID: 002F0101.D		Analyzed: 11/07/12 14:43		
1,3-Dibromopropane	1.989	100	80 - 120	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	85.3	80 - 120	6.063	6.063	0.0000	+/-0.030	
Blank (2K07018-BLK1) ug/L				Lab File ID: 003F0101.D		Analyzed: 11/07/12 15:04		
1,3-Dibromopropane	1.989	99.8	30 - 130	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	88.7	30 - 130	6.063	6.063	0.0000	+/-0.030	
LCS (2K07018-BS1) ug/L				Lab File ID: 004F0101.D		Analyzed: 11/07/12 15:26		
1,3-Dibromopropane	1.989	98.2	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.989	89.1	30 - 130	6.063	6.063	0.0000	+/-0.030	
GW0786 (1210292-01) ug/L				Lab File ID: 007F0101.D		Analyzed: 11/07/12 16:30		
1,3-Dibromopropane	1.851	87.4	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.851	76.4	30 - 130	6.06	6.063	-0.0030	+/-0.030	
GW0787 (1210292-03) ug/L				Lab File ID: 008F0101.D		Analyzed: 11/07/12 16:51		
1,3-Dibromopropane	1.891	95.9	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.891	82.9	30 - 130	6.06	6.063	-0.0030	+/-0.030	
GW0788 (1210292-05) ug/L				Lab File ID: 009F0101.D		Analyzed: 11/07/12 17:12		
1,3-Dibromopropane	1.857	94.0	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.857	81.6	30 - 130	6.06	6.063	-0.0030	+/-0.030	
GW0848 (1210292-07) ug/L				Lab File ID: 010F0101.D		Analyzed: 11/07/12 17:33		
1,3-Dibromopropane	1.874	89.8	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.874	82.1	30 - 130	6.063	6.063	0.0000	+/-0.030	
GW0849 (1210292-09) ug/L				Lab File ID: 011F0101.D		Analyzed: 11/07/12 17:54		
1,3-Dibromopropane	1.882	84.6	30 - 130	6.003	6.01	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.882	69.1	30 - 130	6.06	6.063	-0.0030	+/-0.030	
Matrix Spike (2K07018-MS1) ug/L				Lab File ID: 012F0101.D		Analyzed: 11/07/12 18:16		
1,3-Dibromopropane	1.844	79.7	30 - 130	6.003	6.01	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.844	67.0	30 - 130	6.06	6.063	-0.0030	+/-0.030	
Matrix Spike Dup (2K07018-MSD1) ug/L				Lab File ID: 013F0101.D		Analyzed: 11/07/12 18:37		
1,3-Dibromopropane	1.866	89.0	30 - 130	6.003	6.01	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.866	74.7	30 - 130	6.06	6.063	-0.0030	+/-0.030	
GW0850 (1210292-11) ug/L				Lab File ID: 014F0101.D		Analyzed: 11/07/12 18:58		
1,3-Dibromopropane	1.848	86.4	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.848	74.0	30 - 130	6.06	6.063	-0.0030	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31606	Instrument:	GL-ECD2
		Calibration:	2292002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0755 (1211036-01) ug/L				Lab File ID: 015F0101.D		Analyzed: 11/07/12 19:19		
1,3-Dibromopropane	1.874	91.3	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.874	78.0	30 - 130	6.06	6.063	-0.0030	+/-0.030	
Calibration Check (2K31606-CCV2) ug/L				Lab File ID: 017F0101.D		Analyzed: 11/07/12 20:02		
1,3-Dibromopropane	1.989	88.0	80 - 120	6.003	6.01	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.989	74.0	80 - 120	6.06	6.063	-0.0030	+/-0.030	*
GW0763 (1211036-05) ug/L				Lab File ID: 018F0101.D		Analyzed: 11/07/12 20:23		
1,3-Dibromopropane	1.880	89.4	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.880	70.5	30 - 130	6.06	6.063	-0.0030	+/-0.030	
GW0802 (1211036-07) ug/L				Lab File ID: 019F0101.D		Analyzed: 11/07/12 20:44		
1,3-Dibromopropane	1.887	90.7	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.887	76.9	30 - 130	6.06	6.063	-0.0030	+/-0.030	
GW0803 (1211036-09) ug/L				Lab File ID: 020F0101.D		Analyzed: 11/07/12 21:05		
1,3-Dibromopropane	1.876	83.1	30 - 130	6.003	6.01	-0.0070	+/-0.030	
1,3-Dibromopropane [2C]	1.876	69.8	30 - 130	6.06	6.063	-0.0030	+/-0.030	
GW0804 (1211036-11) ug/L				Lab File ID: 021F0101.D		Analyzed: 11/07/12 21:27		
1,3-Dibromopropane	1.861	86.4	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.861	72.9	30 - 130	6.06	6.063	-0.0030	+/-0.030	
GW0813 (1211036-15) ug/L				Lab File ID: 023F0101.D		Analyzed: 11/07/12 22:09		
1,3-Dibromopropane	1.888	87.1	30 - 130	6.006	6.01	-0.0040	+/-0.030	
1,3-Dibromopropane [2C]	1.888	72.9	30 - 130	6.06	6.063	-0.0030	+/-0.030	
Matrix Spike (2K07018-MS2) ug/L				Lab File ID: 024F0101.D		Analyzed: 11/07/12 22:30		
1,3-Dibromopropane	1.883	91.3	30 - 130	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.883	76.7	30 - 130	6.063	6.063	0.0000	+/-0.030	
Matrix Spike Dup (2K07018-MSD2) ug/L				Lab File ID: 025F0101.D		Analyzed: 11/07/12 22:51		
1,3-Dibromopropane	1.904	102	30 - 130	6.013	6.01	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.904	88.8	30 - 130	6.066	6.063	0.0030	+/-0.030	
GW0814 (1211036-17) ug/L				Lab File ID: 026F0101.D		Analyzed: 11/07/12 23:12		
1,3-Dibromopropane	1.904	86.2	30 - 130	6.013	6.01	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.904	73.6	30 - 130	6.066	6.063	0.0030	+/-0.030	
GW0832 (1211036-19) ug/L				Lab File ID: 027F0101.D		Analyzed: 11/07/12 23:34		
1,3-Dibromopropane	1.855	87.6	30 - 130	6.013	6.01	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.855	75.4	30 - 130	6.066	6.063	0.0030	+/-0.030	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31606	Instrument:	GL-ECD2
		Calibration:	2292002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Matrix Spike (2K07018-MS3) ug/L				Lab File ID: 028F0101.D		Analyzed: 11/07/12 23:55		
1,3-Dibromopropane	1.874	94.5	30 - 130	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.874	82.5	30 - 130	6.063	6.063	0.0000	+/-0.030	
Matrix Spike Dup (2K07018-MSD3) ug/L				Lab File ID: 029F0101.D		Analyzed: 11/08/12 00:17		
1,3-Dibromopropane	1.890	92.6	30 - 130	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.890	80.4	30 - 130	6.066	6.063	0.0030	+/-0.030	
GW0833 (1211036-21) ug/L				Lab File ID: 030F0101.D		Analyzed: 11/08/12 00:38		
1,3-Dibromopropane	1.848	88.2	30 - 130	6.013	6.01	0.0030	+/-0.030	
1,3-Dibromopropane [2C]	1.848	77.1	30 - 130	6.066	6.063	0.0030	+/-0.030	
Calibration Check (2K31606-CCV3) ug/L				Lab File ID: 031F0101.D		Analyzed: 11/08/12 00:59		
1,3-Dibromopropane	1.989	87.5	80 - 120	6.01	6.01	0.0000	+/-0.030	
1,3-Dibromopropane [2C]	1.989	76.1	80 - 120	6.066	6.063	0.0030	+/-0.030	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

Laboratory:

Client:

Sequence:

SDG:

Project:

Instrument:

Calibration:

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K07018	Laboratory ID:	2K07018-BS1
Preparation:	EDB	Initial/Final:	35 mL / 35 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5020	100	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4611	92.2	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8011

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07018

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dibromoethane	0.4635	0.2337	0.5124	60.1	*	70 - 130
1,2-Dibromoethane [2C]	0.4635	0.2136	0.4922	60.1	*	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.4692	0.5787	73.5	12.2		20	70 - 130
1,2-Dibromoethane [2C]	0.4692	0.5506	71.8	11.2		20	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8011

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07018

% Solids:

Source Sample Name: **1211036-15**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dibromoethane	0.4734	ND	0.4156	87.8		70 - 130
1,2-Dibromoethane [2C]	0.4734	ND	0.3626	76.6		70 - 130

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.4787	0.4623	96.6	10.6		20	70 - 130
1,2-Dibromoethane [2C]	0.4787	0.4298	89.8	17.0		20	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8011

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07018

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dibromoethane	0.4712	ND	0.4219	89.5		70 - 130
1,2-Dibromoethane [2C]	0.4712	ND	0.3849	81.7		70 - 130

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.4751	0.4104	86.4	2.75		20	70 - 130
1,2-Dibromoethane [2C]	0.4751	0.3669	77.2	4.77		20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K07018 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0786	1210292-01	11/07/12 09:10	37.60	35.00
GW0787	1210292-03	11/07/12 09:10	36.81	35.00
GW0788	1210292-05	11/07/12 09:10	37.48	35.00
GW0848	1210292-07	11/07/12 09:10	37.14	35.00
GW0849	1210292-09	11/07/12 09:10	36.99	35.00
GW0850	1210292-11	11/07/12 09:10	37.66	35.00
GW0755	1211036-01	11/07/12 09:10	37.14	35.00
GW0762	1211036-03RE2	11/07/12 09:10	37.18	35.00
GW0763	1211036-05	11/07/12 09:10	37.02	35.00
GW0802	1211036-07	11/07/12 09:10	36.89	35.00
GW0803	1211036-09	11/07/12 09:10	37.11	35.00
GW0804	1211036-11	11/07/12 09:10	37.40	35.00
GW0812	1211036-13RE2	11/07/12 09:10	36.88	35.00
GW0813	1211036-15	11/07/12 09:10	36.87	35.00
GW0814	1211036-17	11/07/12 09:10	36.56	35.00
GW0832	1211036-19	11/07/12 09:10	37.52	35.00
GW0833	1211036-21	11/07/12 09:10	37.67	35.00
Blank	2K07018-BLK1	11/07/12 09:10	35.00	35.00
LCS	2K07018-BS1	11/07/12 09:10	35.00	35.00
GW0849	2K07018-MS1	11/07/12 09:10	37.76	35.00
GW0813	2K07018-MS2	11/07/12 09:10	36.96	35.00
GW0832	2K07018-MS3	11/07/12 09:10	37.14	35.00
GW0849	2K07018-MSD1	11/07/12 09:10	37.30	35.00
GW0813	2K07018-MSD2	11/07/12 09:10	36.56	35.00
GW0832	2K07018-MSD3	11/07/12 09:10	36.83	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K07018-BLK1	File ID:	003R0101.D
Sampled:		Prepared:	11/07/12 09:10	Analyzed:	11/07/12 15:04
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K07018	Sequence:	2K31606	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.984	99.8	30 - 130	
1,3-Dibromopropane [2C]	1.989	1.764	88.7	30 - 130	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K07018-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	11/07/12 15:26
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K07018	Sequence:	2K31606	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.5020**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.989	1.952	98.2	30 - 130	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K07018-BS1	File ID:	004R0101.D
Sampled:		Prepared:		Analyzed:	11/07/12 15:26
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K07018	Sequence:	2K31606	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.4611**	0.0100	0.0200	0.0300	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.989	1.773	89.1	30 - 130	Y

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K07018-MS1	File ID:	012F0101.D
Sampled:		Prepared:		Analyzed:	11/07/12 18:16
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K07018	Sequence:	2K31606	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.5124**	0.00927	0.0185	0.0278	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.844	1.468	79.7	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K07018-MS1	File ID:	012R0101.D
Sampled:		Prepared:		Analyzed:	11/07/12 18:16
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K07018	Sequence:	2K31606	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.4922**	0.00927	0.0185	0.0278	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.844	1.234	67.0	30 - 130	Y

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2K07018-MS2	File ID:	024F0101.D
Sampled:		Prepared:		Analyzed:	11/07/12 22:30
Solids:		Preparation:	EDB	Dilution:	

Batch: 2K07018 Sequence: 2K31606 Calibration: 2292002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.4156**	0.00947	0.0189	0.0284	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.883	1.720	91.3	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K07018-MS2	File ID:	024R0101.D
Sampled:		Prepared:		Analyzed:	11/07/12 22:30
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K07018	Sequence:	2K31606	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.3626**	0.00947	0.0189	0.0284	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.883	1.444	76.7	30 - 130	Y

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K07018-MS3	File ID:	028F0101.D
Sampled:		Prepared:		Analyzed:	11/07/12 23:55
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K07018	Sequence:	2K31606	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.4219**	0.00942	0.0188	0.0283	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.874	1.771	94.5	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K07018-MS3	File ID:	028R0101.D
Sampled:		Prepared:		Analyzed:	11/07/12 23:55
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K07018	Sequence:	2K31606	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.3849**	0.00942	0.0188	0.0283	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.874	1.546	82.5	30 - 130	Y

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K07018-MSD1	File ID:	013F0101.D
Sampled:		Prepared:		Analyzed:	11/07/12 18:37
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K07018	Sequence:	2K31606	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.5787**	0.00938	0.0188	0.0282	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.866	1.660	89.0	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2K07018-MSD1
File ID: 013R0101.D
Sampled:
Prepared:
Analyzed: 11/07/12 18:37
Solids:
Preparation: EDB
Dilution:
Batch: 2K07018
Sequence: 2K31606
Calibration: 2292002
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.5506**	0.00938	0.0188	0.0282	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.866	1.394	74.7	30 - 130	Y

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K07018-MSD2	File ID:	025F0101.D
Sampled:		Prepared:		Analyzed:	11/07/12 22:51
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K07018	Sequence:	2K31606	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.4623**	0.00957	0.0191	0.0287	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.904	1.936	102	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K07018-MSD2	File ID:	025R0101.D
Sampled:		Prepared:		Analyzed:	11/07/12 22:51
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K07018	Sequence:	2K31606	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.4298**	0.00957	0.0191	0.0287	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.904	1.690	88.8	30 - 130	Y

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K07018-MSD3	File ID:	029F0101.D
Sampled:		Prepared:		Analyzed:	11/08/12 00:17
Solids:		Preparation:	EDB	Dilution:	

Batch:	2K07018	Sequence:	2K31606	Calibration:	2292002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	**0.4104**	0.00950	0.0190	0.0285	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane	1.890	1.749	92.6	30 - 130	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2K07018-MSD3
File ID: 029R0101.D
Sampled:
Prepared:
Analyzed: 11/08/12 00:17
Solids:
Preparation: EDB
Dilution:
Batch: 2K07018
Sequence: 2K31606
Calibration: 2292002
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	**0.3669**	0.00950	0.0190	0.0285	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,3-Dibromopropane [2C]	1.890	1.520	80.4	30 - 130	Y

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29206	Instrument:	GL-ECD2
Calibration:	2292002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12J0351	EDB ICAL 1 (0.02ppb)	2J29206-CAL1	004R0101.D	10/11/12 16:10
12J0351	EDB ICAL 1 (0.02ppb)	2J29206-CAL1	004F0101.D	10/11/12 16:10
12J0352	EDB ICAL 2 (0.05ppb)	2J29206-CAL2	005R0101.D	10/11/12 16:31
12J0352	EDB ICAL 2 (0.05ppb)	2J29206-CAL2	005F0101.D	10/11/12 16:31
12J0353	EDB ICAL 3 (0.10ppb)	2J29206-CAL3	006R0101.D	10/11/12 16:53
12J0353	EDB ICAL 3 (0.10ppb)	2J29206-CAL3	006F0101.D	10/11/12 16:53
12J0354	EDB ICAL 4 (0.20ppb)	2J29206-CAL4	007R0101.D	10/11/12 17:14
12J0354	EDB ICAL 4 (0.20ppb)	2J29206-CAL4	007F0101.D	10/11/12 17:14
12J0355	EDB ICAL 5 (0.5ppb)	2J29206-CAL5	008R0101.D	10/11/12 17:35
12J0355	EDB ICAL 5 (0.5ppb)	2J29206-CAL5	008F0101.D	10/11/12 17:35
12J0356	EDB ICAL 6 (1.0ppb)	2J29206-CAL6	009R0101.D	10/11/12 17:56
12J0356	EDB ICAL 6 (1.0ppb)	2J29206-CAL6	009F0101.D	10/11/12 17:56

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J29206	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2J29206-CAL1	004R0101.D	10/11/12 16:10
Cal Standard	2J29206-CAL1	004F0101.D	10/11/12 16:10
Cal Standard	2J29206-CAL2	005R0101.D	10/11/12 16:31
Cal Standard	2J29206-CAL2	005F0101.D	10/11/12 16:31
Cal Standard	2J29206-CAL3	006R0101.D	10/11/12 16:53
Cal Standard	2J29206-CAL3	006F0101.D	10/11/12 16:53
Cal Standard	2J29206-CAL4	007R0101.D	10/11/12 17:14
Cal Standard	2J29206-CAL4	007F0101.D	10/11/12 17:14
Cal Standard	2J29206-CAL5	008R0101.D	10/11/12 17:35
Cal Standard	2J29206-CAL5	008F0101.D	10/11/12 17:35
Cal Standard	2J29206-CAL6	009R0101.D	10/11/12 17:56
Cal Standard	2J29206-CAL6	009F0101.D	10/11/12 17:56
Initial Cal Check	2J29206-ICV1	010R0101.D	10/11/12 18:18
Initial Cal Check	2J29206-ICV1	010F0101.D	10/11/12 18:18

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31606	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K31606-CCV1	002R0101.D	11/07/12 14:43
Calibration Check	2K31606-CCV1	002F0101.D	11/07/12 14:43
Blank	2K07018-BLK1	003R0101.D	11/07/12 15:04
Blank	2K07018-BLK1	003F0101.D	11/07/12 15:04
LCS	2K07018-BS1	004F0101.D	11/07/12 15:26
LCS	2K07018-BS1	004R0101.D	11/07/12 15:26
GW0786	1210292-01	007F0101.D	11/07/12 16:30
GW0786	1210292-01	007R0101.D	11/07/12 16:30
GW0787	1210292-03	008R0101.D	11/07/12 16:51
GW0787	1210292-03	008F0101.D	11/07/12 16:51
GW0788	1210292-05	009F0101.D	11/07/12 17:12
GW0788	1210292-05	009R0101.D	11/07/12 17:12
GW0848	1210292-07	010F0101.D	11/07/12 17:33
GW0848	1210292-07	010R0101.D	11/07/12 17:33
GW0849	1210292-09	011F0101.D	11/07/12 17:54
GW0849	1210292-09	011R0101.D	11/07/12 17:54
GW0849	2K07018-MS1	012F0101.D	11/07/12 18:16
GW0849	2K07018-MS1	012R0101.D	11/07/12 18:16
GW0849	2K07018-MSD1	013F0101.D	11/07/12 18:37
GW0849	2K07018-MSD1	013R0101.D	11/07/12 18:37
GW0850	1210292-11	014R0101.D	11/07/12 18:58
GW0850	1210292-11	014F0101.D	11/07/12 18:58
GW0755	1211036-01	015F0101.D	11/07/12 19:19
GW0755	1211036-01	015R0101.D	11/07/12 19:19
Calibration Check	2K31606-CCV2	017F0101.D	11/07/12 20:02
Calibration Check	2K31606-CCV2	017R0101.D	11/07/12 20:02
GW0763	1211036-05	018R0101.D	11/07/12 20:23
GW0763	1211036-05	018F0101.D	11/07/12 20:23
GW0802	1211036-07	019F0101.D	11/07/12 20:44
GW0802	1211036-07	019R0101.D	11/07/12 20:44
GW0803	1211036-09	020F0101.D	11/07/12 21:05
GW0803	1211036-09	020R0101.D	11/07/12 21:05

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31606	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0804	1211036-11	021R0101.D	11/07/12 21:27
GW0804	1211036-11	021F0101.D	11/07/12 21:27
GW0813	1211036-15	023R0101.D	11/07/12 22:09
GW0813	1211036-15	023F0101.D	11/07/12 22:09
GW0813	2K07018-MS2	024R0101.D	11/07/12 22:30
GW0813	2K07018-MS2	024F0101.D	11/07/12 22:30
GW0813	2K07018-MSD2	025F0101.D	11/07/12 22:51
GW0813	2K07018-MSD2	025R0101.D	11/07/12 22:51
GW0814	1211036-17	026R0101.D	11/07/12 23:12
GW0814	1211036-17	026F0101.D	11/07/12 23:12
GW0832	1211036-19	027F0101.D	11/07/12 23:34
GW0832	1211036-19	027R0101.D	11/07/12 23:34
GW0832	2K07018-MS3	028R0101.D	11/07/12 23:55
GW0832	2K07018-MS3	028F0101.D	11/07/12 23:55
GW0832	2K07018-MSD3	029F0101.D	11/08/12 00:17
GW0832	2K07018-MSD3	029R0101.D	11/08/12 00:17
GW0833	1211036-21	030R0101.D	11/08/12 00:38
GW0833	1211036-21	030F0101.D	11/08/12 00:38
Calibration Check	2K31606-CCV3	031R0101.D	11/08/12 00:59
Calibration Check	2K31606-CCV3	031F0101.D	11/08/12 00:59

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32302	Instrument:	GL-ECD2
Calibration:	2292002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32302-CCV1	002R0101.D	11/14/12 13:02
Calibration Check	2K32302-CCV1	002F0101.D	11/14/12 13:02
GW0762	1211036-03RE2	003R0101.D	11/14/12 13:23
GW0762	1211036-03RE2	003F0101.D	11/14/12 13:23
GW0812	1211036-13RE2	004R0101.D	11/14/12 13:45
GW0812	1211036-13RE2	004F0101.D	11/14/12 13:45
Calibration Check	2K32302-CCV2	006R0101.D	11/14/12 14:28
Calibration Check	2K32302-CCV2	006F0101.D	11/14/12 14:28

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2292002	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	10/11/12 16:10	10/11/12 17:56

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.02	10650	0.05	10860	0.1	10660	0.2	9475	0.5	9386	1	8356
1,2-Dibromoethane [2C]	0.02	31550	0.05	34320	0.1	34660	0.2	32510	0.5	31110	1	30406
1,2-Dibromo-3-chloropropane	0.02	22600	0.05	20080	0.1	19070	0.2	16850	0.5	15220	1	13344
1,2-Dibromo-3-chloropropane [2C]	0.02	68550	0.05	63880	0.1	59900	0.2	56300	0.5	56304	1	53927
1,3-Dibromopropane	0.09944	6244.972	0.1989	~~2885.872~~	0.4972	6391.794	0.9944	5737.128	1.989	5078.431	3.978	4436.4
1,3-Dibromopropane [2C]	0.09944	26739.74	0.1989	~~12227.25~~	0.4972	24656.07	0.9944	22013.27	1.989	19895.93	3.978	17722.72

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2292002	Instrument:	GL-ECD2		
Matrix:	Water	Calibration Dates:	10/11/12 16:10	10/11/12 17:56	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	9897.833	9.991906	2.694	0.0551041			20	
1,2-Dibromoethane [2C]	32426	5.370791	2.66	1.685277E-02			20	
1,2-Dibromo-3-chloropropane	17860.67	18.94447	8.78	1.335599E-02			20	
1,2-Dibromo-3-chloropropane [2C]	59810.17	9.224062	9.119333	2.295245E-02			20	
1,3-Dibromopropane	5577.745	14.68939	6.0154	2.089261E-02			20	
1,3-Dibromopropane [2C]	22205.55	16.242	6.0692	2.971043E-02			20	

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	010F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2J29206	Injection Date:	10/11/12
Lab Sample ID:	2J29206-ICV1	Injection Time:	18:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4839	9897.833	9580		-3.2	20
1,2-Dibromoethane [2C]	A	0.5000	0.4886	32426	31684		-2.3	20
1,3-Dibromopropane	A	1.989	1.779	5577.745	4989.945		-10.5	20
1,3-Dibromopropane [2C]	A	1.989	1.741	22205.55	19441.43		-12.4	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	002F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K31606	Injection Date:	11/07/12
Lab Sample ID:	2K31606-CCV1	Injection Time:	14:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.5007	9897.833	9912		0.1	20
1,2-Dibromoethane [2C]	A	0.5000	0.4276	32426	27734		-14.5	20
1,3-Dibromopropane	A	1.989	1.990	5577.745	5579.186		0.03	20
1,3-Dibromopropane [2C]	A	1.989	1.696	22205.55	18937.15		-14.7	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	017F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K31606	Injection Date:	11/07/12
Lab Sample ID:	2K31606-CCV2	Injection Time:	20:02

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4498	9897.833	8904		-10.0	20
1,2-Dibromoethane [2C]	A	0.5000	0.4015	32426	26036		-19.7	20
1,3-Dibromopropane	A	1.989	1.751	5577.745	4910.005		-12.0	20
1,3-Dibromopropane [2C]	A	1.989	1.471	22205.55	16420.31		-26.1	20 *

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	031F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K31606	Injection Date:	11/08/12
Lab Sample ID:	2K31606-CCV3	Injection Time:	00:59

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4428	9897.833	8766		-11.4	20
1,2-Dibromoethane [2C]	A	0.5000	0.4112	32426	26664		-17.8	20
1,3-Dibromopropane	A	1.989	1.741	5577.745	4881.347		-12.5	20
1,3-Dibromopropane [2C]	A	1.989	1.513	22205.55	16889.39		-23.9	20 *

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	002F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K32302	Injection Date:	11/14/12
Lab Sample ID:	2K32302-CCV1	Injection Time:	13:02

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.5030	9897.833	9958		0.6	20
1,2-Dibromoethane [2C]	A	0.5000	0.4903	32426	31800		-1.9	20

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2292002
Lab File ID:	006F0101.D	Calibration Date:	10/18/12 12:29
Sequence:	2K32302	Injection Date:	11/14/12
Lab Sample ID:	2K32302-CCV2	Injection Time:	14:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	A	0.5000	0.4954	9897.833	9806		-0.9	20
1,2-Dibromoethane [2C]	A	0.5000	0.5101	32426	33080		2.0	20

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0786

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1210292-01 Date(s) Analyzed: 11/07/2012 11/07/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.244	
	2	2.66	2.63	2.69	0.210	15

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0787

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1210292-03 Date(s) Analyzed: 11/07/2012 11/07/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.413	
	2	2.66	2.63	2.69	0.376	9

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0788

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1210292-05 Date(s) Analyzed: 11/07/2012 11/07/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.312	
	2	2.66	2.63	2.69	0.284	10

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0848

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1210292-07 Date(s) Analyzed: 11/07/2012 11/07/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.0488	
	2	2.66	2.63	2.69	0.0650	28

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0849

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1210292-09 Date(s) Analyzed: 11/07/2012 11/07/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.234	
	2	2.65	2.63	2.69	0.214	9

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0762

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1211036-03RE2 Date(s) Analyzed: 11/14/2012 11/14/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	120	
	2	2.66	2.63	2.69	120	0

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0763

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1211036-05 Date(s) Analyzed: 11/07/2012 11/07/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.0111	
	2	2.66	2.63	2.69	0.0144	26

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0812

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1211036-13RE2 Date(s) Analyzed: 11/14/2012 11/14/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	202	
	2	2.65	2.63	2.69	207	3

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2K07018-BS1 Date(s) Analyzed: 11/07/2012 11/07/2012

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.5020	
	2	2.66	2.63	2.69	0.4611	8

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2K07018-MS1

Date(s) Analyzed: 11/07/2012 11/07/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.5124	
	2	2.65	2.63	2.69	0.4922	4

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2K07018-MS2

Date(s) Analyzed: 11/07/2012 11/07/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.4156	
	2	2.66	2.63	2.69	0.3626	14

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2K07018-MS3

Date(s) Analyzed: 11/07/2012 11/07/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.4219	
	2	2.66	2.63	2.69	0.3849	9

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2K07018-MSD1

Date(s) Analyzed: 11/07/2012 11/07/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.5787	
	2	2.66	2.63	2.69	0.5506	5

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2K07018-MSD2

Date(s) Analyzed: 11/07/2012 11/07/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.4623	
	2	2.66	2.63	2.69	0.4298	7

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 2K07018-MSD3

Date(s) Analyzed: 11/08/2012 11/08/2012

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.69	2.66	2.72	0.4104	
	2	2.66	2.63	2.69	0.3669	11

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0786	10/30/12 15:41	10/31/12 08:30	11/07/12 09:10	N/A	14.00	11/07/12 16:30	7.99	14.00	
GW0787	10/30/12 13:25	10/31/12 08:30	11/07/12 09:10	N/A	14.00	11/07/12 16:51	8.10	14.00	
GW0788	10/30/12 11:05	10/31/12 08:30	11/07/12 09:10	N/A	14.00	11/07/12 17:12	8.21	14.00	
GW0848	10/29/12 16:50	10/31/12 08:30	11/07/12 09:10	N/A	14.00	11/07/12 17:33	8.99	14.00	
GW0849	10/29/12 14:00	10/31/12 08:30	11/07/12 09:10	N/A	14.00	11/07/12 17:54	9.12	14.00	
GW0850	10/29/12 11:17	10/31/12 08:30	11/07/12 09:10	N/A	14.00	11/07/12 18:58	9.28	14.00	
GW0755	11/01/12 12:13	11/02/12 08:15	11/07/12 09:10	N/A	14.00	11/07/12 19:19	6.25	14.00	
GW0762	11/01/12 15:33	11/02/12 08:15	11/07/12 09:10	N/A	14.00	11/14/12 13:23	12.87	14.00	
GW0763	11/01/12 09:34	11/02/12 08:15	11/07/12 09:10	N/A	14.00	11/07/12 20:23	6.41	14.00	
GW0802	10/31/12 15:32	11/02/12 08:15	11/07/12 09:10	N/A	14.00	11/07/12 20:44	7.18	14.00	
GW0803	10/31/12 13:17	11/02/12 08:15	11/07/12 09:10	N/A	14.00	11/07/12 21:05	7.28	14.00	
GW0804	10/31/12 10:51	11/02/12 08:15	11/07/12 09:10	N/A	14.00	11/07/12 21:27	7.40	14.00	
GW0812	10/31/12 16:27	11/02/12 08:15	11/07/12 09:10	N/A	14.00	11/14/12 13:45	13.85	14.00	
GW0813	10/31/12 13:44	11/02/12 08:15	11/07/12 09:10	N/A	14.00	11/07/12 22:09	7.31	14.00	
GW0814	10/31/12 11:21	11/02/12 08:15	11/07/12 09:10	N/A	14.00	11/07/12 23:12	7.45	14.00	
GW0832	11/01/12 13:37	11/02/12 08:15	11/07/12 09:10	N/A	14.00	11/07/12 23:34	6.37	14.00	
GW0833	11/01/12 11:17	11/02/12 08:15	11/07/12 09:10	N/A	14.00	11/08/12 00:38	6.51	14.00	

PREPARATION BENCH SHEET

2K07018

Empirical Laboratories, LLC

Printed: 11/19/2012 1:48:51PM

Instrument:

Matrix: Water **Prepared using: GCLC - EDB** **Surrogate used: 12K0201**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210292-01	G	SGC_EDB_8011	11/07/2012	37.6013	35				140	NA	Run dilutions based on 8260 results!
1210292-03	G	SGC_EDB_8011	11/07/2012	36.8104	35				140	NA	Run dilutions based on 8260 results!
1210292-05	G	SGC_EDB_8011	11/07/2012	37.4798	35				140	NA	Run dilutions based on 8260 results!
1210292-07	G	SGC_EDB_8011	11/07/2012	37.1409	35				140	NA	Run dilutions based on 8260 results!
1210292-09	Y	SGC_EDB_8011	11/07/2012	36.9912	35				140	NA	MS/MSD, Run dilutions based on 8260 results!
1210292-11	G	SGC_EDB_8011	11/07/2012	37.6608	35				140	NA	Run dilutions based on 8260 results!
1211036-01	G	SGC_EDB_8011	11/07/2012	37.1388	35				140	NA	Run dilutions based on 8260 results!
1211036-03	G	SGC_EDB_8011	11/07/2012	37.1839	35				140	NA	Run dilutions based on 8260 results!
1211036-03RE1	G	SGC_EDB_8011	11/07/2012	37.1839	35				140	NA	100x; Added 11/12/2012 by PRC
1211036-03RE2	G	SGC_EDB_8011	11/07/2012	37.1839	35				140	NA	Added 11/18/2012 by PRC
1211036-05	G	SGC_EDB_8011	11/07/2012	37.0158	35				140	NA	Run dilutions based on 8260 results!
1211036-07	G	SGC_EDB_8011	11/07/2012	36.8928	35				140	NA	Run dilutions based on 8260 results!
1211036-09	G	SGC_EDB_8011	11/07/2012	37.1143	35				140	NA	Run dilutions based on 8260 results!
1211036-11	G	SGC_EDB_8011	11/07/2012	37.4013	35				140	NA	Run dilutions based on 8260 results!
1211036-13	G	SGC_EDB_8011	11/07/2012	36.8848	35				140	NA	Run dilutions based on 8260 results!
1211036-13RE1	G	SGC_EDB_8011	11/07/2012	36.8848	35				140	NA	200x; Added 11/12/2012 by PRC
1211036-13RE2	G	SGC_EDB_8011	11/07/2012	36.8848	35				140	NA	Added 11/18/2012 by PRC
1211036-15	Y	SGC_EDB_8011	11/07/2012	36.8726	35				140	NA	MS/MSD, Run dilutions based on 8260 results!
1211036-17	G	SGC_EDB_8011	11/07/2012	36.5602	35				140	NA	Run dilutions based on 8260 results!
1211036-19	V	SGC_EDB_8011	11/07/2012	37.5189	35				140	NA	MS/MSD, Run dilutions based on 8260 results!
1211036-21	G	SGC_EDB_8011	11/07/2012	37.674	35				140	NA	Run dilutions based on 8260 results!
1211062-01	F	SGC_EDB_8011	11/07/2012	37.1381	35				140	NA	Run dilutions based on 8260 results!

PREPARATION BENCH SHEET

2K07018

Empirical Laboratories, LLC

Printed: 11/19/2012 1:48:51PM

Instrument:

Matrix: Water **Prepared using: GCLC - EDB** **Surrogate used: 12K0201**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211062-02	F	SGC_EDB_8011	11/07/2012	37.7822	35				140	NA	Run dilutions based on 8260 results!
2K07018-BLK1		QC	11/07/2012	35	35				140	NA	
2K07018-BS1		QC	11/07/2012	35	35	12K0202		35	140	NA	
2K07018-MS1		QC	11/07/2012	37.7576	35	12J0340	1210292-09	35	140	NA	
2K07018-MS2		QC	11/07/2012	36.9648	35	12J0340	1211036-15	35	140	NA	
2K07018-MS3		QC	11/07/2012	37.1381	35	12J0340	1211036-19	35	140	NA	
2K07018-MSD1		QC	11/07/2012	37.2955	35	12J0340	1210292-09	35	140	NA	
2K07018-MSD2		QC	11/07/2012	36.5603	35	12J0340	1211036-15	35	140	NA	
2K07018-MSD3		QC	11/07/2012	36.8305	35	12J0340	1211036-19	35	140	NA	

Reagents Used:

Standard	Description

SW8015B (DRO)
Forms

Sample Extraction Data

Prep Method: EXT_3510-SW8015B DRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1210292-01 [GW0786]	2J31025	1,000.00/1.00	1000	1.00	1.00			10/31/12
1210292-03 [GW0787]	2J31025	1,000.00/1.00	1000	1.00	1.00			10/31/12
1210292-05 [GW0788]	2J31025	1,000.00/1.00	1000	1.00	1.00			10/31/12
1210292-07 [GW0848]	2J31025	1,000.00/1.00	1000	1.00	1.00			10/31/12
1210292-09 [GW0849]	2J31025	1,000.00/1.00	1000	1.00	1.00			10/31/12
1210292-11 [GW0850]	2J31025	1,000.00/1.00	1020	1.00	1.00			10/31/12

Sample Extraction Data

Prep Method: EXT_3510-SW8015B DRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-01 [GW0755]	2K06015	1,000.00/1.00	1060	1.00	1.00			11/06/12
1211036-03RE1 [GW0762]	2K06015	1,000.00/1.00	1040	1.00	100.00			11/06/12
1211036-05 [GW0763]	2K06015	1,000.00/1.00	1020	1.00	1.00			11/06/12
1211036-07 [GW0802]	2K06015	1,000.00/1.00	1020	1.00	1.00			11/06/12
1211036-09 [GW0803]	2K06015	1,000.00/1.00	1040	1.00	1.00			11/06/12
1211036-11 [GW0804]	2K06015	1,000.00/1.00	1060	1.00	1.00			11/06/12
1211036-13RE1 [GW0812]	2K06015	1,000.00/1.00	1000	1.00	100.00			11/06/12
1211036-15 [GW0813]	2K06015	1,000.00/1.00	1000	1.00	1.00			11/06/12
1211036-17 [GW0814]	2K06015	1,000.00/1.00	1020	1.00	1.00			11/06/12
1211036-19 [GW0832]	2K06015	1,000.00/1.00	1000	1.00	1.00			11/06/12
1211036-21 [GW0833]	2K06015	1,000.00/1.00	1000	1.00	1.00			11/06/12

ANALYSIS DATA SHEET

GW0786

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-01	File ID:	008F0801.D
Sampled:	10/30/12 15:41	Prepared:	10/31/12 13:00	Analyzed:	10/31/12 17:58
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J31025 Sequence: 2K31017 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.007739	38.7	30 - 140	Y

ANALYSIS DATA SHEET

GW0787

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-03	File ID:	009F0901.D
Sampled:	10/30/12 13:25	Prepared:	10/31/12 13:00	Analyzed:	10/31/12 18:31
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J31025 Sequence: 2K31017 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.009731	48.7	30 - 140	Y

ANALYSIS DATA SHEET

GW0788

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-05	File ID:	010F1001.D
Sampled:	10/30/12 11:05	Prepared:	10/31/12 13:00	Analyzed:	10/31/12 19:04
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J31025 Sequence: 2K31017 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01061	53.1	30 - 140	Y

ANALYSIS DATA SHEET

GW0848

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-07	File ID:	011F1101.D
Sampled:	10/29/12 16:50	Prepared:	10/31/12 13:00	Analyzed:	10/31/12 19:37
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J31025 Sequence: 2K31017 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.760**	0.100	0.200	0.400	

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01053	52.7	30 - 140	Y

ANALYSIS DATA SHEET

GW0849

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-09	File ID:	012F1201.D
Sampled:	10/29/12 14:00	Prepared:	10/31/12 13:00	Analyzed:	10/31/12 20:10
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J31025 Sequence: 2K31017 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.785**	0.100	0.200	0.400	

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.006655	33.3	30 - 140	Y

ANALYSIS DATA SHEET

GW0850

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-11	File ID:	015F1501.D
Sampled:	10/29/12 11:17	Prepared:	10/31/12 13:00	Analyzed:	10/31/12 21:49
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2J31025 Sequence: 2K31017 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.007544	38.5	30 - 140	Y

ANALYSIS DATA SHEET

GW0755

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-01	File ID:	041F4101.D
Sampled:	11/01/12 12:13	Prepared:	11/06/12 15:00	Analyzed:	11/16/12 18:35
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K06015 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.189	0.377	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.009247	49.0	30 - 140	Y

ANALYSIS DATA SHEET

GW0762

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-03RE1	File ID:	007F0701.D
Sampled:	11/01/12 15:33	Prepared:	11/06/12 15:00	Analyzed:	11/21/12 19:43
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 2K06015 Sequence: 2K33210 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**74.3**	9.62	19.2	38.5	D

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.1108	576	30 - 140	D

ANALYSIS DATA SHEET

GW0763

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-05	File ID:	043F4301.D
Sampled:	11/01/12 09:34	Prepared:	11/06/12 15:00	Analyzed:	11/16/12 19:41
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K06015 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01105	56.4	30 - 140	Y

ANALYSIS DATA SHEET

GW0802

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-07	File ID:	044F4401.D
Sampled:	10/31/12 15:32	Prepared:	11/06/12 15:00	Analyzed:	11/16/12 20:14
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K06015 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.008781	44.8	30 - 140	Y

ANALYSIS DATA SHEET

GW0803

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-09	File ID:	045F4501.D
Sampled:	10/31/12 13:17	Prepared:	11/06/12 15:00	Analyzed:	11/16/12 20:47
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K06015 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.192	0.385	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01720	89.4	30 - 140	Y

ANALYSIS DATA SHEET

GW0804

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-11	File ID:	046F4601.D
Sampled:	10/31/12 10:51	Prepared:	11/06/12 15:00	Analyzed:	11/16/12 21:20
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K06015 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.189	0.377	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01250	66.2	30 - 140	Y

ANALYSIS DATA SHEET

GW0812

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-13RE1	File ID:	008F0801.D
Sampled:	10/31/12 16:27	Prepared:	11/06/12 15:00	Analyzed:	11/21/12 20:16
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 2K06015 Sequence: 2K33210 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**60.9**	10.0	20.0	40.0	D

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.1140	570	30 - 140	D

ANALYSIS DATA SHEET

GW0813

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-15	File ID:	048F4801.D
Sampled:	10/31/12 13:44	Prepared:	11/06/12 15:00	Analyzed:	11/16/12 22:25
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K06015 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01701	85.1	30 - 140	Y

ANALYSIS DATA SHEET

GW0814

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-17	File ID:	051F5101.D
Sampled:	10/31/12 11:21	Prepared:	11/06/12 15:00	Analyzed:	11/17/12 00:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K06015 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.196	0.392	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01302	66.4	30 - 140	Y

ANALYSIS DATA SHEET

GW0832

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-19	File ID:	052F5201.D
Sampled:	11/01/12 13:37	Prepared:	11/06/12 15:00	Analyzed:	11/17/12 00:38
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K06015 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	NU

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01231	61.5	30 - 140	Y

ANALYSIS DATA SHEET

GW0833

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-21	File ID:	056F5601.D
Sampled:	11/01/12 11:17	Prepared:	11/06/12 15:00	Analyzed:	11/17/12 02:50
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2K06015 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01186	59.3	30 - 140	Y

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31017	Instrument:	GL-GCFID2
		Calibration:	2278001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31017-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 10/31/12 15:11		
o-Terphenyl	50.00	78.2	80 - 120	10.846	10.846	0.0000	+/-0.050	*
Blank (2J31025-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 10/31/12 15:45		
o-Terphenyl	0.02000	66.9	30 - 140	10.853	10.846	0.0070	+/-0.050	
LCS (2J31025-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 10/31/12 16:18		
o-Terphenyl	0.02000	55.8	30 - 140	10.83	10.846	-0.0160	+/-0.050	
GW0786 (1210292-01) mg/L				Lab File ID: 008F0801.D		Analyzed: 10/31/12 17:58		
o-Terphenyl	0.02000	38.7	30 - 140	10.836	10.846	-0.0100	+/-0.050	
GW0787 (1210292-03) mg/L				Lab File ID: 009F0901.D		Analyzed: 10/31/12 18:31		
o-Terphenyl	0.02000	48.7	30 - 140	10.83	10.846	-0.0160	+/-0.050	
GW0788 (1210292-05) mg/L				Lab File ID: 010F1001.D		Analyzed: 10/31/12 19:04		
o-Terphenyl	0.02000	53.1	30 - 140	10.826	10.846	-0.0200	+/-0.050	
GW0848 (1210292-07) mg/L				Lab File ID: 011F1101.D		Analyzed: 10/31/12 19:37		
o-Terphenyl	0.02000	52.7	30 - 140	10.826	10.846	-0.0200	+/-0.050	
GW0849 (1210292-09) mg/L				Lab File ID: 012F1201.D		Analyzed: 10/31/12 20:10		
o-Terphenyl	0.02000	33.3	30 - 140	10.823	10.846	-0.0230	+/-0.050	
Matrix Spike (2J31025-MS1) mg/L				Lab File ID: 013F1301.D		Analyzed: 10/31/12 20:43		
o-Terphenyl	0.02000	42.6	30 - 140	10.82	10.846	-0.0260	+/-0.050	
Matrix Spike Dup (2J31025-MSD1) mg/L				Lab File ID: 014F1401.D		Analyzed: 10/31/12 21:16		
o-Terphenyl	0.01961	53.7	30 - 140	10.823	10.846	-0.0230	+/-0.050	
GW0850 (1210292-11) mg/L				Lab File ID: 015F1501.D		Analyzed: 10/31/12 21:49		
o-Terphenyl	0.01961	38.5	30 - 140	10.836	10.846	-0.0100	+/-0.050	
Calibration Check (2K31017-CCV2) mg/L				Lab File ID: 016F1601.D		Analyzed: 10/31/12 22:22		
o-Terphenyl	50.00	59.4	80 - 120	10.826	10.846	-0.0200	+/-0.050	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32408	Instrument:	GL-GCFID2
		Calibration:	2320005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K32408-CCV1) mg/L				Lab File ID: 014F1401.D		Analyzed: 11/16/12 03:37		
o-Terphenyl	50.00	82.5	80 - 120	11.443	11.443	0.0000	+/-0.050	
Calibration Check (2K32408-CCV4) mg/L				Lab File ID: 038F3801.D		Analyzed: 11/16/12 16:56		
o-Terphenyl	50.00	97.5	80 - 120	11.456	11.443	0.0130	+/-0.050	
Blank (2K06015-BLK1) mg/L				Lab File ID: 039F3901.D		Analyzed: 11/16/12 17:29		
o-Terphenyl	0.02000	48.7	30 - 140	11.45	11.443	0.0070	+/-0.050	
LCS (2K06015-BS1) mg/L				Lab File ID: 040F4001.D		Analyzed: 11/16/12 18:02		
o-Terphenyl	0.02000	85.0	30 - 140	11.443	11.443	0.0000	+/-0.050	
GW0755 (1211036-01) mg/L				Lab File ID: 041F4101.D		Analyzed: 11/16/12 18:35		
o-Terphenyl	0.01887	49.0	30 - 140	11.443	11.443	0.0000	+/-0.050	
GW0763 (1211036-05) mg/L				Lab File ID: 043F4301.D		Analyzed: 11/16/12 19:41		
o-Terphenyl	0.01961	56.4	30 - 140	11.44	11.443	-0.0030	+/-0.050	
GW0802 (1211036-07) mg/L				Lab File ID: 044F4401.D		Analyzed: 11/16/12 20:14		
o-Terphenyl	0.01961	44.8	30 - 140	11.443	11.443	0.0000	+/-0.050	
GW0803 (1211036-09) mg/L				Lab File ID: 045F4501.D		Analyzed: 11/16/12 20:47		
o-Terphenyl	0.01923	89.4	30 - 140	11.443	11.443	0.0000	+/-0.050	
GW0804 (1211036-11) mg/L				Lab File ID: 046F4601.D		Analyzed: 11/16/12 21:20		
o-Terphenyl	0.01887	66.2	30 - 140	11.453	11.443	0.0100	+/-0.050	
GW0813 (1211036-15) mg/L				Lab File ID: 048F4801.D		Analyzed: 11/16/12 22:25		
o-Terphenyl	0.02000	85.1	30 - 140	11.44	11.443	-0.0030	+/-0.050	
Matrix Spike (2K06015-MS1) mg/L				Lab File ID: 049F4901.D		Analyzed: 11/16/12 22:58		
o-Terphenyl	0.02000	72.1	30 - 140	11.44	11.443	-0.0030	+/-0.050	
Matrix Spike Dup (2K06015-MSD1) mg/L				Lab File ID: 050F5001.D		Analyzed: 11/16/12 23:32		
o-Terphenyl	0.01961	68.2	30 - 140	11.44	11.443	-0.0030	+/-0.050	
GW0814 (1211036-17) mg/L				Lab File ID: 051F5101.D		Analyzed: 11/17/12 00:05		
o-Terphenyl	0.01961	66.4	30 - 140	11.446	11.443	0.0030	+/-0.050	
GW0832 (1211036-19) mg/L				Lab File ID: 052F5201.D		Analyzed: 11/17/12 00:38		
o-Terphenyl	0.02000	61.5	30 - 140	11.443	11.443	0.0000	+/-0.050	
Matrix Spike (2K06015-MS2) mg/L				Lab File ID: 053F5301.D		Analyzed: 11/17/12 01:11		
o-Terphenyl	0.02000	64.1	30 - 140	11.443	11.443	0.0000	+/-0.050	
Matrix Spike Dup (2K06015-MSD2) mg/L				Lab File ID: 054F5401.D		Analyzed: 11/17/12 01:44		
o-Terphenyl	0.02000	92.3	30 - 140	11.44	11.443	-0.0030	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32408	Instrument:	GL-GCFID2
		Calibration:	2320005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K32408-CCV5) mg/L				Lab File ID: 055F5501.D		Analyzed: 11/17/12 02:17		
o-Terphenyl	50.00	74.4	80 - 120	11.443	11.443	0.0000	+/-0.050	*
GW0833 (1211036-21) mg/L				Lab File ID: 056F5601.D		Analyzed: 11/17/12 02:50		
o-Terphenyl	0.02000	59.3	30 - 140	11.45	11.443	0.0070	+/-0.050	
Calibration Check (2K32408-CCV6) mg/L				Lab File ID: 066F6601.D		Analyzed: 11/18/12 09:00		
o-Terphenyl	50.00	91.7	80 - 120	11.5	11.443	0.0570	+/-0.050	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K33210	Instrument:	GL-GCFID2
		Calibration:	2320005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K33210-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 11/21/12 17:30		
o-Terphenyl	50.00	93.8	80 - 120	11.45	11.45	0.0000	+/-0.050	
GW0762 (1211036-03RE1) mg/L				Lab File ID: 007F0701.D		Analyzed: 11/21/12 19:43		
o-Terphenyl	0.01923	576	30 - 140	11.416	11.45	-0.0340	+/-0.050	*
GW0812 (1211036-13RE1) mg/L				Lab File ID: 008F0801.D		Analyzed: 11/21/12 20:16		
o-Terphenyl	0.02000	570	30 - 140	11.436	11.45	-0.0140	+/-0.050	*
Calibration Check (2K33210-CCV2) mg/L				Lab File ID: 014F1401.D		Analyzed: 11/21/12 23:34		
o-Terphenyl	50.00	90.7	80 - 120	11.413	11.45	-0.0370	+/-0.050	

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2J31025	Laboratory ID:	2J31025-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.6427	64.3	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K06015	Laboratory ID:	2K06015-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.7396	74.0	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B DRO

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2J31025

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.7848	1.387	60.3		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	0.9804	1.712	94.6	21.0		30	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B DRO

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K06015

% Solids:

Source Sample Name: **1211036-15**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	ND	0.6194	61.9		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	0.9804	0.6080	62.0	1.85		30	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B DRO

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K06015

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	ND	0.5504	55.0		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.8289	82.9	40.4	*	30	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2J31025 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0786	1210292-01	10/31/12 13:00	1,000.00	1.00
GW0787	1210292-03	10/31/12 13:00	1,000.00	1.00
GW0788	1210292-05	10/31/12 13:00	1,000.00	1.00
GW0848	1210292-07	10/31/12 13:00	1,000.00	1.00
GW0849	1210292-09	10/31/12 13:00	1,000.00	1.00
GW0850	1210292-11	10/31/12 13:00	1,020.00	1.00
Blank	2J31025-BLK1	10/31/12 13:00	1,000.00	1.00
LCS	2J31025-BS1	10/31/12 13:00	1,000.00	1.00
GW0849	2J31025-MS1	10/31/12 13:00	1,000.00	1.00
GW0849	2J31025-MSD1	10/31/12 13:00	1,020.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K06015 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0755	1211036-01	11/06/12 15:00	1,060.00	1.00
GW0762	1211036-03RE1	11/06/12 15:00	1,040.00	1.00
GW0763	1211036-05	11/06/12 15:00	1,020.00	1.00
GW0802	1211036-07	11/06/12 15:00	1,020.00	1.00
GW0803	1211036-09	11/06/12 15:00	1,040.00	1.00
GW0804	1211036-11	11/06/12 15:00	1,060.00	1.00
GW0812	1211036-13RE1	11/06/12 15:00	1,000.00	1.00
GW0813	1211036-15	11/06/12 15:00	1,000.00	1.00
GW0814	1211036-17	11/06/12 15:00	1,020.00	1.00
GW0832	1211036-19	11/06/12 15:00	1,000.00	1.00
GW0833	1211036-21	11/06/12 15:00	1,000.00	1.00
Blank	2K06015-BLK1	11/06/12 15:00	1,000.00	1.00
LCS	2K06015-BS1	11/06/12 15:00	1,000.00	1.00
GW0813	2K06015-MS1	11/06/12 15:00	1,000.00	1.00
GW0832	2K06015-MS2	11/06/12 15:00	1,000.00	1.00
GW0813	2K06015-MSD1	11/06/12 15:00	1,020.00	1.00
GW0832	2K06015-MSD2	11/06/12 15:00	1,000.00	1.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J31025-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	10/31/12 15:45
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2J31025	Sequence:	2K31017	Calibration:	2278001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01337	66.9	30 - 140	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2J31025-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	10/31/12 16:18
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2J31025	Sequence:	2K31017	Calibration:	2278001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.6427**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01116	55.8	30 - 140	Y

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2J31025-MS1	File ID:	013F1301.D
Sampled:		Prepared:		Analyzed:	10/31/12 20:43
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2J31025 Sequence: 2K31017 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**1.387**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.008510	42.6	30 - 140	Y

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2J31025-MSD1	File ID:	014F1401.D
Sampled:		Prepared:		Analyzed:	10/31/12 21:16
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2J31025 Sequence: 2K31017 Calibration: 2278001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**1.712**	0.0980	0.196	0.392	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01053	53.7	30 - 140	Y

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K06015-BLK1	File ID:	039F3901.D
Sampled:		Prepared:		Analyzed:	11/16/12 17:29
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2K06015	Sequence:	2K32408	Calibration:	2320005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.200	0.400	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.009731	48.7	30 - 140	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K06015-BS1	File ID:	040F4001.D
Sampled:		Prepared:		Analyzed:	11/16/12 18:02
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2K06015	Sequence:	2K32408	Calibration:	2320005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.7396**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01700	85.0	30 - 140	Y

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2K06015-MS1	File ID:	049F4901.D
Sampled:		Prepared:		Analyzed:	11/16/12 22:58
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2K06015 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.6194**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01441	72.1	30 - 140	Y

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2K06015-MS2	File ID:	053F5301.D
Sampled:		Prepared:		Analyzed:	11/17/12 01:11
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2K06015 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.5504**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01281	64.1	30 - 140	Y

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2K06015-MSD1	File ID:	050F5001.D
Sampled:		Prepared:		Analyzed:	11/16/12 23:32
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 2K06015 Sequence: 2K32408 Calibration: 2320005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.6080**	0.0980	0.196	0.392	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01338	68.2	30 - 140	Y

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K06015-MSD2	File ID:	054F5401.D
Sampled:		Prepared:		Analyzed:	11/17/12 01:44
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2K06015	Sequence:	2K32408	Calibration:	2320005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	**0.8289**	0.100	0.200	0.400	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01846	92.3	30 - 140	Y

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J27808	Instrument:	GL-GCFID2
Calibration:	2278001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12J0087	DRO/OTP Cal1 (5000/250ppm)	2J27808-CAL1	003F0301.D	10/03/12 13:48
12J0088	DRO/OTP Cal2 (2500/125ppm)	2J27808-CAL2	004F0401.D	10/03/12 14:21
12J0089	DRO/OTP Cal3 (1000/50ppm)	2J27808-CAL3	005F0501.D	10/03/12 14:54
12J0090	DRO/OTP Cal4 (500/25ppm)	2J27808-CAL4	006F0601.D	10/03/12 15:28
12J0091	DRO/OTP Cal5 (250/12.5ppm)	2J27808-CAL5	007F0701.D	10/03/12 16:01
12J0092	DRO/OTP Cal6 (100/5ppm)	2J27808-CAL6	008F0801.D	10/03/12 16:34

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32018	Instrument:	GL-GCFID2
Calibration:	2320005		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12J0092	DRO/OTP Cal6 (100/5ppm)	2K32018-CAL6	010F1001.D	11/15/12 02:14
12J0091	DRO/OTP Cal5 (250/12.5ppm)	2K32018-CAL5	011F1101.D	11/15/12 02:47
12J0090	DRO/OTP Cal4 (500/25ppm)	2K32018-CAL4	012F1201.D	11/15/12 03:20
12J0089	DRO/OTP Cal3 (1000/50ppm)	2K32018-CAL3	013F1301.D	11/15/12 03:53
12J0088	DRO/OTP Cal2 (2500/125ppm)	2K32018-CAL2	014F1401.D	11/15/12 04:26
12J0087	DRO/OTP Cal1 (5000/250ppm)	2K32018-CAL1	015F1501.D	11/15/12 04:59

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2J27808	Instrument:	GL-GCFID2
Calibration:	2278001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2J27808-CAL1	003F0301.D	10/03/12 13:48
Cal Standard	2J27808-CAL2	004F0401.D	10/03/12 14:21
Cal Standard	2J27808-CAL3	005F0501.D	10/03/12 14:54
Cal Standard	2J27808-CAL4	006F0601.D	10/03/12 15:28
Cal Standard	2J27808-CAL5	007F0701.D	10/03/12 16:01
Cal Standard	2J27808-CAL6	008F0801.D	10/03/12 16:34
Initial Cal Check	2J27808-ICV1	009F0901.D	10/03/12 17:08

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31017	Instrument:	GL-GCFID2
Calibration:	2278001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K31017-CCV1	003F0301.D	10/31/12 15:11
Blank	2J31025-BLK1	004F0401.D	10/31/12 15:45
LCS	2J31025-BS1	005F0501.D	10/31/12 16:18
GW0786	1210292-01	008F0801.D	10/31/12 17:58
GW0787	1210292-03	009F0901.D	10/31/12 18:31
GW0788	1210292-05	010F1001.D	10/31/12 19:04
GW0848	1210292-07	011F1101.D	10/31/12 19:37
GW0849	1210292-09	012F1201.D	10/31/12 20:10
GW0849	2J31025-MS1	013F1301.D	10/31/12 20:43
GW0849	2J31025-MSD1	014F1401.D	10/31/12 21:16
GW0850	1210292-11	015F1501.D	10/31/12 21:49
Calibration Check	2K31017-CCV2	016F1601.D	10/31/12 22:22

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32018	Instrument:	GL-GCFID2
Calibration:	2320005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K32018-CAL6	010F1001.D	11/15/12 02:14
Cal Standard	2K32018-CAL5	011F1101.D	11/15/12 02:47
Cal Standard	2K32018-CAL4	012F1201.D	11/15/12 03:20
Cal Standard	2K32018-CAL3	013F1301.D	11/15/12 03:53
Cal Standard	2K32018-CAL2	014F1401.D	11/15/12 04:26
Cal Standard	2K32018-CAL1	015F1501.D	11/15/12 04:59
Initial Cal Check	2K32018-ICV1	016F1601.D	11/15/12 05:32

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32408	Instrument:	GL-GCFID2
Calibration:	2320005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32408-CCV1	014F1401.D	11/16/12 03:37
Calibration Check	2K32408-CCV4	038F3801.D	11/16/12 16:56
Blank	2K06015-BLK1	039F3901.D	11/16/12 17:29
LCS	2K06015-BS1	040F4001.D	11/16/12 18:02
GW0755	1211036-01	041F4101.D	11/16/12 18:35
GW0763	1211036-05	043F4301.D	11/16/12 19:41
GW0802	1211036-07	044F4401.D	11/16/12 20:14
GW0803	1211036-09	045F4501.D	11/16/12 20:47
GW0804	1211036-11	046F4601.D	11/16/12 21:20
GW0813	1211036-15	048F4801.D	11/16/12 22:25
GW0813	2K06015-MS1	049F4901.D	11/16/12 22:58
GW0813	2K06015-MSD1	050F5001.D	11/16/12 23:32
GW0814	1211036-17	051F5101.D	11/17/12 00:05
GW0832	1211036-19	052F5201.D	11/17/12 00:38
GW0832	2K06015-MS2	053F5301.D	11/17/12 01:11
GW0832	2K06015-MSD2	054F5401.D	11/17/12 01:44
Calibration Check	2K32408-CCV5	055F5501.D	11/17/12 02:17
GW0833	1211036-21	056F5601.D	11/17/12 02:50
Calibration Check	2K32408-CCV6	066F6601.D	11/18/12 09:00

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K33210	Instrument:	GL-GCFID2
Calibration:	2320005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K33210-CCV1	003F0301.D	11/21/12 17:30
GW0762	1211036-03RE1	007F0701.D	11/21/12 19:43
GW0812	1211036-13RE1	008F0801.D	11/21/12 20:16
Calibration Check	2K33210-CCV2	014F1401.D	11/21/12 23:34

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2278001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	10/3/12 13:48	10/3/12 16:34

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	5000	713.812	2500	581.5312	1000	606.94	500	556.046	250	379.18	100	327.93
o-Terphenyl	250	816.82	125	677.752	50	727.64	25	672.88	12.5	695.44	5	749

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2278001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	10/3/12 13:48	10/3/12 16:34

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	527.5732	27.67442	5.88	1.329984E-02		0.9990672	0.99	
o-Terphenyl	723.2553	7.527006	11.10817	4.717436E-02			20	

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2320005	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	11/15/12 2:14	11/15/12 4:59

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	5000	476.824	2500	448.1404	1000	538.35	500	274.594	250	340.924	100	614.25
o-Terphenyl	250	540.764	125	556.872	50	720.8	25	438.2	12.5	561.6	5	856

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2320005	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	11/15/12 2:14	11/15/12 4:59

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	448.8471	27.85601	6.44	2.123135E-02	0.9957564		0.995	
o-Terphenyl	612.3727	24.46579	11.455	0.1110084		0.9960525	0.99	

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	009F0901.D	Calibration Date:	10/03/12 13:48
Sequence:	2J27808	Injection Date:	10/03/12
Lab Sample ID:	2J27808-ICV1	Injection Time:	17:08

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	1014	527.5732	557.896		1.4	20

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	016F1601.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32018	Injection Date:	11/15/12
Lab Sample ID:	2K32018-ICV1	Injection Time:	05:32

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	822.7	448.8471	367.651		-17.7	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	003F0301.D	Calibration Date:	10/03/12 13:48
Sequence:	2K31017	Injection Date:	10/31/12
Lab Sample ID:	2K31017-CCV1	Injection Time:	15:11

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	903.2	527.5732	493.468		-9.7	20
o-Terphenyl	A	50.00	39.08	723.2553	565.3		-21.8	20 *

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2278001
Lab File ID:	016F1601.D	Calibration Date:	10/03/12 13:48
Sequence:	2K31017	Injection Date:	10/31/12
Lab Sample ID:	2K31017-CCV2	Injection Time:	22:22

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	Q	1000	827.6	527.5732	449.745		-17.2	20
o-Terphenyl	A	50.00	29.70	723.2553	429.68		-40.6	20 *

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	014F1401.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32408	Injection Date:	11/16/12
Lab Sample ID:	2K32408-CCV1	Injection Time:	03:37

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	810.6	448.8471	361.849		-18.9	20
o-Terphenyl	Q	50.00	41.26	612.3727	503.32		-17.5	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	038F3801.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32408	Injection Date:	11/16/12
Lab Sample ID:	2K32408-CCV4	Injection Time:	16:56

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	959.2	448.8471	433.252		-4.1	20
o-Terphenyl	Q	50.00	48.73	612.3727	592.98		-2.5	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	055F5501.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32408	Injection Date:	11/17/12
Lab Sample ID:	2K32408-CCV5	Injection Time:	02:17

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	813.4	448.8471	363.172		-18.7	20
o-Terphenyl	Q	50.00	37.22	612.3727	454.46		-25.6	20 *

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	066F6601.D	Calibration Date:	11/15/12 02:14
Sequence:	2K32408	Injection Date:	11/18/12
Lab Sample ID:	2K32408-CCV6	Injection Time:	09:00

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	1067	448.8471	485.241		6.7	20
o-Terphenyl	Q	50.00	45.84	612.3727	558.44		-8.3	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	003F0301.D	Calibration Date:	11/15/12 02:14
Sequence:	2K33210	Injection Date:	11/21/12
Lab Sample ID:	2K33210-CCV1	Injection Time:	17:30

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	1040	448.8471	472.252		4.0	20
o-Terphenyl	Q	50.00	46.88	612.3727	570.9		-6.2	20

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2320005
Lab File ID:	014F1401.D	Calibration Date:	11/15/12 02:14
Sequence:	2K33210	Injection Date:	11/21/12
Lab Sample ID:	2K33210-CCV2	Injection Time:	23:34

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	L	1000	1121	448.8471	511.196		12.1	20
o-Terphenyl	Q	50.00	45.34	612.3727	552.44		-9.3	20

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0786	10/30/12 15:41	10/31/12 08:30	10/31/12 13:00	0.85	7.00	10/31/12 17:58	0.21	40.00	
GW0787	10/30/12 13:25	10/31/12 08:30	10/31/12 13:00	0.94	7.00	10/31/12 18:31	0.23	40.00	
GW0788	10/30/12 11:05	10/31/12 08:30	10/31/12 13:00	1.04	7.00	10/31/12 19:04	0.25	40.00	
GW0848	10/29/12 16:50	10/31/12 08:30	10/31/12 13:00	1.80	7.00	10/31/12 19:37	0.28	40.00	
GW0849	10/29/12 14:00	10/31/12 08:30	10/31/12 13:00	1.92	7.00	10/31/12 20:10	0.30	40.00	
GW0850	10/29/12 11:17	10/31/12 08:30	10/31/12 13:00	2.03	7.00	10/31/12 21:49	0.37	40.00	
GW0755	11/01/12 12:13	11/02/12 08:15	11/06/12 15:00	5.07	7.00	11/16/12 18:35	10.15	40.00	
GW0762	11/01/12 15:33	11/02/12 08:15	11/06/12 15:00	4.94	7.00	11/21/12 19:43	15.20	40.00	
GW0763	11/01/12 09:34	11/02/12 08:15	11/06/12 15:00	5.18	7.00	11/16/12 19:41	10.20	40.00	
GW0802	10/31/12 15:32	11/02/12 08:15	11/06/12 15:00	5.94	7.00	11/16/12 20:14	10.22	40.00	
GW0803	10/31/12 13:17	11/02/12 08:15	11/06/12 15:00	6.03	7.00	11/16/12 20:47	10.24	40.00	
GW0804	10/31/12 10:51	11/02/12 08:15	11/06/12 15:00	6.13	7.00	11/16/12 21:20	10.26	40.00	
GW0812	10/31/12 16:27	11/02/12 08:15	11/06/12 15:00	5.90	7.00	11/21/12 20:16	15.22	40.00	
GW0813	10/31/12 13:44	11/02/12 08:15	11/06/12 15:00	6.01	7.00	11/16/12 22:25	10.31	40.00	
GW0814	10/31/12 11:21	11/02/12 08:15	11/06/12 15:00	6.11	7.00	11/17/12 00:05	10.38	40.00	
GW0832	11/01/12 13:37	11/02/12 08:15	11/06/12 15:00	5.02	7.00	11/17/12 00:38	10.40	40.00	
GW0833	11/01/12 11:17	11/02/12 08:15	11/06/12 15:00	5.11	7.00	11/17/12 02:50	10.49	40.00	

PREPARATION BENCH SHEET

2J31025

Empirical Laboratories, LLC

Printed: 11/19/2012 2:03:05PM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12J0879**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210292-01	N	SGC_DRO_8015B_3510	10/31/2012	1000	1				1000	NA	
1210292-03	N	SGC_DRO_8015B_3510	10/31/2012	1000	1				1000	NA	
1210292-05	N	SGC_DRO_8015B_3510	10/31/2012	1000	1				1000	NA	
1210292-07	N	SGC_DRO_8015B_3510	10/31/2012	1000	1				1000	NA	
1210292-09	AN	SGC_DRO_8015B_3510	10/31/2012	1000	1				1000	NA	MS/MSD
1210292-11	N	SGC_DRO_8015B_3510	10/31/2012	1020	1				1000	NA	
1210294-01	N	SGC_DRO_8015B_3510	10/31/2012	1020	1				1000	NA	
1210294-03	O	SGC_DRO_8015B_3510	10/31/2012	1020	1				1000	NA	
2J31025-BLK1		QC	10/31/2012	1000	1				1000	NA	
2J31025-BS1		QC	10/31/2012	1000	1	12J0832		1000	1000	NA	
2J31025-MS1		QC	10/31/2012	1000	1	12J0832	1210292-09	1000	1000	NA	
2J31025-MSD1		QC	10/31/2012	1020	1	12J0832	1210292-09	1000	1000	NA	

Reagents Used:

Standard	Description
12J0552	1:1 H2SO4/DIH2O
12J0575	Sodium Sulfate Anhydrous
12J0658	Methylene Chloride

PREPARATION BENCH SHEET

2K06015

Empirical Laboratories, LLC

Printed: 11/28/2012 11:49:27AM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12J0879**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-01	N	SGC_DRO_8015B_3510	11/06/2012	1060	1				1000	NA	
1211036-03	O	SGC_DRO_8015B_3510	11/06/2012	1040	1				1000	NA	
1211036-03RE1	O	SGC_DRO_8015B_3510	11/06/2012	1040	1				1000	NA	Added 11/23/2012 by PRC
1211036-05	N	SGC_DRO_8015B_3510	11/06/2012	1020	1				1000	NA	
1211036-07	O	SGC_DRO_8015B_3510	11/06/2012	1020	1				1000	NA	
1211036-09	P	SGC_DRO_8015B_3510	11/06/2012	1040	1				1000	NA	
1211036-11	N	SGC_DRO_8015B_3510	11/06/2012	1060	1				1000	NA	
1211036-13	O	SGC_DRO_8015B_3510	11/06/2012	1000	1				1000	NA	
1211036-13RE1	O	SGC_DRO_8015B_3510	11/06/2012	1000	1				1000	NA	Added 11/23/2012 by PRC
1211036-15	U	SGC_DRO_8015B_3510	11/06/2012	1000	1				1000	NA	MS/MSD
1211036-15	U	SGC_DRO_8015C_3510	11/06/2012	1000	1				1000	NA	Added for BatchQC in: 2K06015
1211036-17	P	SGC_DRO_8015B_3510	11/06/2012	1020	1				1000	NA	
1211036-19	AN	SGC_DRO_8015C_3510	11/06/2012	1000	1				1000	NA	Added for BatchQC in: 2K06015
1211036-19	AN	SGC_DRO_8015B_3510	11/06/2012	1000	1				1000	NA	MS/MSD
1211036-21	N	SGC_DRO_8015B_3510	11/06/2012	1000	1				1000	NA	
2K06015-BLK1		QC	11/06/2012	1000	1				1000	NA	
2K06015-BS1		QC	11/06/2012	1000	1	12J0832		1000	1000	NA	
2K06015-MS1		QC	11/06/2012	1000	1	12J0832	1211036-15	1000	1000	NA	
2K06015-MS2		QC	11/06/2012	1000	1	12J0832	1211036-19	1000	1000	NA	
2K06015-MSD1		QC	11/06/2012	1020	1	12J0832	1211036-15	1000	1000	NA	
2K06015-MSD2		QC	11/06/2012	1000	1	12J0832	1211036-19	1000	1000	NA	

PREPARATION BENCH SHEET

2K06015

Empirical Laboratories, LLC

Printed: 11/28/2012 11:49:27AM

Instrument:

Matrix: Water **Prepared using: EXT - EXT_3510** **Surrogate used: 12J0879**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description
12J0552	1:1 H2SO4/DIH2O
12J0575	Sodium Sulfate Anhydrous
12J0658	Methylene Chloride

SW8015B (GRO)
Forms

Sample Extraction Data

Prep Method: 8015GRO-SW8015B GRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1210292-01 [GW0786]	2K01029	5.00/5.00	5.00	5.00	1.00			11/01/12
1210292-03 [GW0787]	2K01029	5.00/5.00	5.00	5.00	1.00			11/01/12
1210292-05 [GW0788]	2K01029	5.00/5.00	5.00	5.00	1.00			11/01/12
1210292-07 [GW0848]	2K01029	5.00/5.00	5.00	5.00	1.00			11/01/12
1210292-09 [GW0849]	2K01029	5.00/5.00	5.00	5.00	1.00			11/01/12
1210292-11 [GW0850]	2K01029	5.00/5.00	5.00	5.00	1.00			11/01/12

Sample Extraction Data

Prep Method: 8015GRO-SW8015B GRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-01 [GW0755]	2K06017	5.00/5.00	5.00	5.00	1.00			11/06/12
1211036-21 [GW0833]	2K06017	5.00/5.00	5.00	5.00	1.00			11/07/12

Sample Extraction Data

Prep Method: 8015GRO-SW8015B GRO

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-03RE1 [GW0762]	2K08020	5.00/5.00	5.00	5.00	50.00			11/09/12
1211036-05RE1 [GW0763]	2K08020	5.00/5.00	5.00	5.00	1.00			11/08/12
1211036-07RE1 [GW0802]	2K08020	5.00/5.00	5.00	5.00	1.00			11/08/12
1211036-09RE1 [GW0803]	2K08020	5.00/5.00	5.00	5.00	1.00			11/08/12
1211036-11RE1 [GW0804]	2K08020	5.00/5.00	5.00	5.00	1.00			11/08/12
1211036-13RE1 [GW0812]	2K08020	5.00/5.00	5.00	5.00	50.00			11/09/12
1211036-15RE1 [GW0813]	2K08020	5.00/5.00	5.00	5.00	1.00			11/08/12
1211036-17RE1 [GW0814]	2K08020	5.00/5.00	5.00	5.00	1.00			11/09/12
1211036-19RE1 [GW0832]	2K08020	5.00/5.00	5.00	5.00	1.00			11/09/12

ANALYSIS DATA SHEET

GW0786

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-01	File ID:	015F1501.D
Sampled:	10/30/12 15:41	Prepared:	11/01/12 22:00	Analyzed:	11/02/12 05:58
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K01029 Sequence: 2K31601 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04955	99.1	50 - 150	

ANALYSIS DATA SHEET

GW0787

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-03	File ID:	016F1601.D
Sampled:	10/30/12 13:25	Prepared:	11/01/12 22:00	Analyzed:	11/02/12 06:36
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K01029 Sequence: 2K31601 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04871	97.4	50 - 150	

ANALYSIS DATA SHEET

GW0788

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-05	File ID:	017F1701.D
Sampled:	10/30/12 11:05	Prepared:	11/01/12 22:00	Analyzed:	11/02/12 07:15
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K01029 Sequence: 2K31601 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04400	88.0	50 - 150	

ANALYSIS DATA SHEET

GW0848

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-07	File ID:	018F1801.D
Sampled:	10/29/12 16:50	Prepared:	11/01/12 22:00	Analyzed:	11/02/12 07:53
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K01029 Sequence: 2K31601 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.512**	0.0500	0.100	0.150	

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04408	88.2	50 - 150	

ANALYSIS DATA SHEET

GW0849

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-09	File ID:	019F1901.D
Sampled:	10/29/12 14:00	Prepared:	11/01/12 22:00	Analyzed:	11/02/12 08:31
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K01029 Sequence: 2K31601 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.754**	0.0500	0.100	0.150	

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04542	90.8	50 - 150	

ANALYSIS DATA SHEET

GW0850

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-11	File ID:	022F2201.D
Sampled:	10/29/12 11:17	Prepared:	11/01/12 22:00	Analyzed:	11/02/12 10:26
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K01029 Sequence: 2K31601 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04388	87.8	50 - 150	

ANALYSIS DATA SHEET

GW0755

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-01	File ID:	007F0701.D
Sampled:	11/01/12 12:13	Prepared:	11/06/12 22:06	Analyzed:	11/06/12 22:06
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K06017 Sequence: 2K31603 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05280	106	50 - 150	

ANALYSIS DATA SHEET

GW0762

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-03RE1	File ID:	020F2001.D
Sampled:	11/01/12 15:33	Prepared:	11/09/12 04:24	Analyzed:	11/09/12 04:24
Solids:		Preparation:	8015GRO	Dilution:	50

Batch: 2K08020 Sequence: 2K31717 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**35.9**	2.50	5.00	7.50	YD

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04099	82.0	50 - 150	Y

ANALYSIS DATA SHEET

GW0763

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-05RE1	File ID:	009F0901.D
Sampled:	11/01/12 09:34	Prepared:	11/08/12 21:21	Analyzed:	11/08/12 21:21
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K08020 Sequence: 2K31717 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.0999**	0.0500	0.100	0.150	YJ

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04221	84.4	50 - 150	Y

ANALYSIS DATA SHEET

GW0802

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-07RE1	File ID:	010F1001.D
Sampled:	10/31/12 15:32	Prepared:	11/08/12 21:59	Analyzed:	11/08/12 21:59
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K08020 Sequence: 2K31717 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	UY

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04611	92.2	50 - 150	Y

ANALYSIS DATA SHEET

GW0803

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-09RE1	File ID:	011F1101.D
Sampled:	10/31/12 13:17	Prepared:	11/08/12 22:38	Analyzed:	11/08/12 22:38
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K08020 Sequence: 2K31717 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	UY

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04466	89.3	50 - 150	Y

ANALYSIS DATA SHEET

GW0804

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-11RE1	File ID:	012F1201.D
Sampled:	10/31/12 10:51	Prepared:	11/08/12 23:17	Analyzed:	11/08/12 23:17
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K08020 Sequence: 2K31717 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	UY

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04445	88.9	50 - 150	Y

ANALYSIS DATA SHEET

GW0812

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-13RE1	File ID:	021F2101.D
Sampled:	10/31/12 16:27	Prepared:	11/09/12 05:03	Analyzed:	11/09/12 05:03
Solids:		Preparation:	8015GRO	Dilution:	50

Batch: 2K08020 Sequence: 2K31717 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**42.0**	2.50	5.00	7.50	YD

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03787	75.7	50 - 150	Y

ANALYSIS DATA SHEET

GW0813

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-15RE1	File ID:	013F1301.D
Sampled:	10/31/12 13:44	Prepared:	11/08/12 23:55	Analyzed:	11/08/12 23:55
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K08020 Sequence: 2K31717 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	UY

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04812	96.2	50 - 150	Y

ANALYSIS DATA SHEET

GW0814

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-17RE1	File ID:	016F1601.D
Sampled:	10/31/12 11:21	Prepared:	11/09/12 01:50	Analyzed:	11/09/12 01:50
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K08020 Sequence: 2K31717 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	UY

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04608	92.2	50 - 150	Y

ANALYSIS DATA SHEET

GW0832

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-19RE1	File ID:	017F1701.D
Sampled:	11/01/12 13:37	Prepared:	11/09/12 02:28	Analyzed:	11/09/12 02:28
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K08020 Sequence: 2K31717 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	UY

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04059	81.2	50 - 150	Y

ANALYSIS DATA SHEET

GW0833

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-21	File ID:	022F2201.D
Sampled:	11/01/12 11:17	Prepared:	11/07/12 07:40	Analyzed:	11/07/12 07:40
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 2K06017 Sequence: 2K31603 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

Total Target Analytes Reported: 1

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04950	99.0	50 - 150	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31601	Instrument:	GL-GCVOA2
		Calibration:	2216001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31601-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 11/01/12 22:20		
Bromofluorobenzene	0.05000	83.1	80 - 120	20.3	20.3	0.0000	+/-0.210	
Blank (2K01029-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 11/01/12 22:58		
Bromofluorobenzene	0.05000	101	50 - 150	20.306	20.3	0.0060	+/-0.210	
LCS (2K01029-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 11/01/12 23:36		
Bromofluorobenzene	0.05000	92.6	50 - 150	20.31	20.3	0.0100	+/-0.210	
LCS Dup (2K01029-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 11/02/12 00:15		
Bromofluorobenzene	0.05000	85.9	50 - 150	20.32	20.3	0.0200	+/-0.210	
Calibration Check (2K31601-CCV2) ug/mL				Lab File ID: 014F1401.D		Analyzed: 11/02/12 05:19		
Bromofluorobenzene	0.05000	87.2	80 - 120	20.316	20.3	0.0160	+/-0.210	
GW0786 (1210292-01) mg/L				Lab File ID: 015F1501.D		Analyzed: 11/02/12 05:58		
Bromofluorobenzene	0.05000	99.1	50 - 150	20.316	20.3	0.0160	+/-0.210	
GW0787 (1210292-03) mg/L				Lab File ID: 016F1601.D		Analyzed: 11/02/12 06:36		
Bromofluorobenzene	0.05000	97.4	50 - 150	20.32	20.3	0.0200	+/-0.210	
GW0788 (1210292-05) mg/L				Lab File ID: 017F1701.D		Analyzed: 11/02/12 07:15		
Bromofluorobenzene	0.05000	88.0	50 - 150	20.313	20.3	0.0130	+/-0.210	
GW0848 (1210292-07) mg/L				Lab File ID: 018F1801.D		Analyzed: 11/02/12 07:53		
Bromofluorobenzene	0.05000	88.2	50 - 150	20.316	20.3	0.0160	+/-0.210	
GW0849 (1210292-09) mg/L				Lab File ID: 019F1901.D		Analyzed: 11/02/12 08:31		
Bromofluorobenzene	0.05000	90.8	50 - 150	20.316	20.3	0.0160	+/-0.210	
Matrix Spike (2K01029-MS1) mg/L				Lab File ID: 020F2001.D		Analyzed: 11/02/12 09:09		
Bromofluorobenzene	0.05000	76.3	50 - 150	20.316	20.3	0.0160	+/-0.210	
Matrix Spike Dup (2K01029-MSD1) mg/L				Lab File ID: 021F2101.D		Analyzed: 11/02/12 09:47		
Bromofluorobenzene	0.05000	70.2	50 - 150	20.313	20.3	0.0130	+/-0.210	
GW0850 (1210292-11) mg/L				Lab File ID: 022F2201.D		Analyzed: 11/02/12 10:26		
Bromofluorobenzene	0.05000	87.8	50 - 150	20.31	20.3	0.0100	+/-0.210	
Calibration Check (2K31601-CCV3) ug/mL				Lab File ID: 027F2701.D		Analyzed: 11/02/12 13:39		
Bromofluorobenzene	0.05000	80.3	80 - 120	20.32	20.3	0.0200	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31603	Instrument:	GL-GCVOA2
		Calibration:	2216001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31603-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 11/06/12 19:35		
Bromofluorobenzene	0.05000	83.6	80 - 120	20.31	20.31	0.0000	+/-0.210	
Blank (2K06017-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 11/06/12 20:12		
Bromofluorobenzene	0.05000	111	50 - 150	20.313	20.31	0.0030	+/-0.210	
LCS (2K06017-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 11/06/12 20:50		
Bromofluorobenzene	0.05000	83.4	50 - 150	20.32	20.31	0.0100	+/-0.210	
LCS Dup (2K06017-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 11/06/12 21:28		
Bromofluorobenzene	0.05000	79.9	50 - 150	20.32	20.31	0.0100	+/-0.210	
GW0755 (1211036-01) mg/L				Lab File ID: 007F0701.D		Analyzed: 11/06/12 22:06		
Bromofluorobenzene	0.05000	106	50 - 150	20.32	20.31	0.0100	+/-0.210	
Calibration Check (2K31603-CCV2) ug/mL				Lab File ID: 021F2101.D		Analyzed: 11/07/12 07:02		
Bromofluorobenzene	0.05000	88.5	80 - 120	20.326	20.31	0.0160	+/-0.210	
GW0833 (1211036-21) mg/L				Lab File ID: 022F2201.D		Analyzed: 11/07/12 07:40		
Bromofluorobenzene	0.05000	99.0	50 - 150	20.326	20.31	0.0160	+/-0.210	
Calibration Check (2K31603-CCV3) ug/mL				Lab File ID: 024F2401.D		Analyzed: 11/07/12 08:56		
Bromofluorobenzene	0.05000	86.5	80 - 120	20.33	20.31	0.0200	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31717	Instrument:	GL-GCVOA2
		Calibration:	2216001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2K31717-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 11/08/12 17:34		
Bromofluorobenzene	0.05000	75.9	80 - 120	20.31	20.31	0.0000	+/-0.210	*
Blank (2K08020-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 11/08/12 18:12		
Bromofluorobenzene	0.05000	89.5	50 - 150	20.316	20.31	0.0060	+/-0.210	
LCS (2K08020-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 11/08/12 18:50		
Bromofluorobenzene	0.05000	71.8	50 - 150	20.32	20.31	0.0100	+/-0.210	
LCS Dup (2K08020-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 11/08/12 19:28		
Bromofluorobenzene	0.05000	75.2	50 - 150	20.32	20.31	0.0100	+/-0.210	
Calibration Check (2K31717-CCV2) ug/mL				Lab File ID: 008F0801.D		Analyzed: 11/08/12 20:43		
Bromofluorobenzene	0.05000	66.0	80 - 120	20.32	20.31	0.0100	+/-0.210	*
GW0763 (1211036-05RE1) mg/L				Lab File ID: 009F0901.D		Analyzed: 11/08/12 21:21		
Bromofluorobenzene	0.05000	84.4	50 - 150	20.316	20.31	0.0060	+/-0.210	
GW0802 (1211036-07RE1) mg/L				Lab File ID: 010F1001.D		Analyzed: 11/08/12 21:59		
Bromofluorobenzene	0.05000	92.2	50 - 150	20.316	20.31	0.0060	+/-0.210	
GW0803 (1211036-09RE1) mg/L				Lab File ID: 011F1101.D		Analyzed: 11/08/12 22:38		
Bromofluorobenzene	0.05000	89.3	50 - 150	20.313	20.31	0.0030	+/-0.210	
GW0804 (1211036-11RE1) mg/L				Lab File ID: 012F1201.D		Analyzed: 11/08/12 23:17		
Bromofluorobenzene	0.05000	88.9	50 - 150	20.316	20.31	0.0060	+/-0.210	
GW0813 (1211036-15RE1) mg/L				Lab File ID: 013F1301.D		Analyzed: 11/08/12 23:55		
Bromofluorobenzene	0.05000	96.2	50 - 150	20.313	20.31	0.0030	+/-0.210	
Matrix Spike (2K08020-MS1) mg/L				Lab File ID: 014F1401.D		Analyzed: 11/09/12 00:33		
Bromofluorobenzene	0.05000	69.4	50 - 150	20.316	20.31	0.0060	+/-0.210	
Matrix Spike Dup (2K08020-MSD1) mg/L				Lab File ID: 015F1501.D		Analyzed: 11/09/12 01:12		
Bromofluorobenzene	0.05000	73.6	50 - 150	20.316	20.31	0.0060	+/-0.210	
GW0814 (1211036-17RE1) mg/L				Lab File ID: 016F1601.D		Analyzed: 11/09/12 01:50		
Bromofluorobenzene	0.05000	92.2	50 - 150	20.313	20.31	0.0030	+/-0.210	
GW0832 (1211036-19RE1) mg/L				Lab File ID: 017F1701.D		Analyzed: 11/09/12 02:28		
Bromofluorobenzene	0.05000	81.2	50 - 150	20.313	20.31	0.0030	+/-0.210	
Matrix Spike (2K08020-MS2) mg/L				Lab File ID: 018F1801.D		Analyzed: 11/09/12 03:07		
Bromofluorobenzene	0.05000	72.9	50 - 150	20.316	20.31	0.0060	+/-0.210	
Matrix Spike Dup (2K08020-MSD2) mg/L				Lab File ID: 019F1901.D		Analyzed: 11/09/12 03:45		
Bromofluorobenzene	0.05000	75.6	50 - 150	20.306	20.31	-0.0040	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31717	Instrument:	GL-GCVOA2
		Calibration:	2216001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0762 (1211036-03RE1) mg/L				Lab File ID: 020F2001.D		Analyzed: 11/09/12 04:24		
Bromofluorobenzene	0.05000	82.0	50 - 150	20.31	20.31	0.0000	+/-0.210	
GW0812 (1211036-13RE1) mg/L				Lab File ID: 021F2101.D		Analyzed: 11/09/12 05:03		
Bromofluorobenzene	0.05000	75.7	50 - 150	20.31	20.31	0.0000	+/-0.210	
Calibration Check (2K31717-CCV3) ug/mL				Lab File ID: 022F2201.D		Analyzed: 11/09/12 05:42		
Bromofluorobenzene	0.05000	80.7	80 - 120	20.31	20.31	0.0000	+/-0.210	

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K01029	Laboratory ID:	2K01029-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.4628	92.6	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.4574	91.5	1.18	30	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K06017	Laboratory ID:	2K06017-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.4257	85.1	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.4064	81.3	4.63	30	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K08020	Laboratory ID:	2K08020-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.4017	80.3	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.3996	79.9	0.547	30	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K01029

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.7541	1.213	91.8		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS	
						RPD	REC.
Gasoline Range Organics (C6-C10)	0.5000	1.157	80.6	4.70		30	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K08020

% Solids:

Source Sample Name: **1211036-15RE1**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	ND	0.3727	74.5		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.4138	82.8	10.5		30	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K08020

% Solids:

Source Sample Name: **1211036-19RE1**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	ND	0.4359	87.2		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5111	102	15.9		30	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K01029 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0786	1210292-01	11/01/12 22:00	5.00	5.00
GW0787	1210292-03	11/01/12 22:00	5.00	5.00
GW0788	1210292-05	11/01/12 22:00	5.00	5.00
GW0848	1210292-07	11/01/12 22:00	5.00	5.00
GW0849	1210292-09	11/01/12 22:00	5.00	5.00
GW0850	1210292-11	11/01/12 22:00	5.00	5.00
Blank	2K01029-BLK1	11/01/12 22:00	5.00	5.00
LCS	2K01029-BS1	11/01/12 22:00	5.00	5.00
LCS Dup	2K01029-BSD1	11/01/12 22:00	5.00	5.00
GW0849	2K01029-MS1	11/01/12 22:00	5.00	5.00
GW0849	2K01029-MSD1	11/01/12 22:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K06017 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0755	1211036-01	11/06/12 22:06	5.00	5.00
GW0833	1211036-21	11/07/12 07:40	5.00	5.00
Blank	2K06017-BLK1	11/06/12 20:12	5.00	5.00
LCS	2K06017-BS1	11/06/12 20:50	5.00	5.00
LCS Dup	2K06017-BSD1	11/06/12 21:28	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K08020 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0762	1211036-03RE1	11/09/12 04:24	5.00	5.00
GW0763	1211036-05RE1	11/08/12 21:21	5.00	5.00
GW0802	1211036-07RE1	11/08/12 21:59	5.00	5.00
GW0803	1211036-09RE1	11/08/12 22:38	5.00	5.00
GW0804	1211036-11RE1	11/08/12 23:17	5.00	5.00
GW0812	1211036-13RE1	11/09/12 05:03	5.00	5.00
GW0813	1211036-15RE1	11/08/12 23:55	5.00	5.00
GW0814	1211036-17RE1	11/09/12 01:50	5.00	5.00
GW0832	1211036-19RE1	11/09/12 02:28	5.00	5.00
Blank	2K08020-BLK1	11/08/12 18:12	5.00	5.00
LCS	2K08020-BS1	11/08/12 18:50	5.00	5.00
LCS Dup	2K08020-BSD1	11/08/12 19:28	5.00	5.00
GW0813	2K08020-MS1	11/09/12 00:33	5.00	5.00
GW0832	2K08020-MS2	11/09/12 03:07	5.00	5.00
GW0813	2K08020-MSD1	11/09/12 01:12	5.00	5.00
GW0832	2K08020-MSD2	11/09/12 03:45	5.00	5.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2K01029-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	11/01/12 22:58
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2K01029 Sequence: 2K31601 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05059	101	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2K01029-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	11/01/12 23:36
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2K01029 Sequence: 2K31601 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.4628**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04632	92.6	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2K01029-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	11/02/12 00:15
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2K01029 Sequence: 2K31601 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.4574**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04294	85.9	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2K01029-MS1	File ID:	020F2001.D
Sampled:		Prepared:		Analyzed:	11/02/12 09:09
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2K01029 Sequence: 2K31601 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**1.213**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03815	76.3	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K01029-MSD1	File ID:	021F2101.D
Sampled:		Prepared:		Analyzed:	11/02/12 09:47
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2K01029	Sequence:	2K31601	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**1.157**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03509	70.2	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_069
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	2K06017-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	11/06/12 20:12
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2K06017 Sequence: 2K31603 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05538	111	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K06017-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	11/06/12 20:50
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2K06017	Sequence:	2K31603	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.4257**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04169	83.4	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K06017-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	11/06/12 21:28
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2K06017	Sequence:	2K31603	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.4064**	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03995	79.9	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08020-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	11/08/12 18:12
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2K08020	Sequence:	2K31717	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	UY

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04476	89.5	50 - 150	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08020-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	11/08/12 18:50
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2K08020	Sequence:	2K31717	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.4017**	0.0500	0.100	0.150	Y

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03588	71.8	50 - 150	Y

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2K08020-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	11/08/12 19:28
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	2K08020	Sequence:	2K31717	Calibration:	2216001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.3996**	0.0500	0.100	0.150	Y

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03761	75.2	50 - 150	Y

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2K08020-MS1	File ID:	014F1401.D
Sampled:		Prepared:		Analyzed:	11/09/12 00:33
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2K08020 Sequence: 2K31717 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.3727**	0.0500	0.100	0.150	Y

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03469	69.4	50 - 150	Y

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2K08020-MS2	File ID:	018F1801.D
Sampled:		Prepared:		Analyzed:	11/09/12 03:07
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2K08020 Sequence: 2K31717 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.4359**	0.0500	0.100	0.150	Y

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03644	72.9	50 - 150	Y

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 2K08020-MSD1
File ID: 015F1501.D
Sampled:
Prepared:
Analyzed: 11/09/12 01:12
Solids:
Preparation: 8015GRO
Dilution:
Batch: 2K08020
Sequence: 2K31717
Calibration: 2216001
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.4138**	0.0500	0.100	0.150	Y

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03680	73.6	50 - 150	Y

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	2K08020-MSD2	File ID:	019F1901.D
Sampled:		Prepared:		Analyzed:	11/09/12 03:45
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 2K08020 Sequence: 2K31717 Calibration: 2216001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	**0.5111**	0.0500	0.100	0.150	Y

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03782	75.6	50 - 150	Y

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21611	Instrument:	GL-GCVOA2
Calibration:	2216001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
12H0009	GRO Cal 0.1ppm	2H21611-CAL1	003F0301.D	07/31/12 15:05
12H0010	GRO Cal 0.2ppm	2H21611-CAL2	004F0401.D	07/31/12 15:45
12H0011	GRO Cal 0.5ppm	2H21611-CAL3	005F0501.D	07/31/12 16:25
12H0012	GRO Cal 1.0ppm	2H21611-CAL4	006F0601.D	07/31/12 17:05
12H0013	GRO Cal 2.0ppm	2H21611-CAL5	007F0701.D	07/31/12 17:44
12H0014	GRO Cal 5.0ppm	2H21611-CAL6	008F0801.D	07/31/12 18:24

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2H21611	Instrument:	GL-GCVOA2
Calibration:	2216001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2H21611-CAL1	003F0301.D	07/31/12 15:05
Cal Standard	2H21611-CAL2	004F0401.D	07/31/12 15:45
Cal Standard	2H21611-CAL3	005F0501.D	07/31/12 16:25
Cal Standard	2H21611-CAL4	006F0601.D	07/31/12 17:05
Cal Standard	2H21611-CAL5	007F0701.D	07/31/12 17:44
Cal Standard	2H21611-CAL6	008F0801.D	07/31/12 18:24
Initial Cal Check	2H21611-ICV1	003F0301.D	08/02/12 14:13

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31601	Instrument:	GL-GCVOA2
Calibration:	2216001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K31601-CCV1	003F0301.D	11/01/12 22:20
Blank	2K01029-BLK1	004F0401.D	11/01/12 22:58
LCS	2K01029-BS1	005F0501.D	11/01/12 23:36
LCS Dup	2K01029-BSD1	006F0601.D	11/02/12 00:15
Calibration Check	2K31601-CCV2	014F1401.D	11/02/12 05:19
GW0786	1210292-01	015F1501.D	11/02/12 05:58
GW0787	1210292-03	016F1601.D	11/02/12 06:36
GW0788	1210292-05	017F1701.D	11/02/12 07:15
GW0848	1210292-07	018F1801.D	11/02/12 07:53
GW0849	1210292-09	019F1901.D	11/02/12 08:31
GW0849	2K01029-MS1	020F2001.D	11/02/12 09:09
GW0849	2K01029-MSD1	021F2101.D	11/02/12 09:47
GW0850	1210292-11	022F2201.D	11/02/12 10:26
Calibration Check	2K31601-CCV3	027F2701.D	11/02/12 13:39

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31603	Instrument:	GL-GCVOA2
Calibration:	2216001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K31603-CCV1	003F0301.D	11/06/12 19:35
Blank	2K06017-BLK1	004F0401.D	11/06/12 20:12
LCS	2K06017-BS1	005F0501.D	11/06/12 20:50
LCS Dup	2K06017-BSD1	006F0601.D	11/06/12 21:28
GW0755	1211036-01	007F0701.D	11/06/12 22:06
Calibration Check	2K31603-CCV2	021F2101.D	11/07/12 07:02
GW0833	1211036-21	022F2201.D	11/07/12 07:40
Calibration Check	2K31603-CCV3	024F2401.D	11/07/12 08:56

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31717	Instrument:	GL-GCVOA2
Calibration:	2216001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K31717-CCV1	003F0301.D	11/08/12 17:34
Blank	2K08020-BLK1	004F0401.D	11/08/12 18:12
LCS	2K08020-BS1	005F0501.D	11/08/12 18:50
LCS Dup	2K08020-BSD1	006F0601.D	11/08/12 19:28
Calibration Check	2K31717-CCV2	008F0801.D	11/08/12 20:43
GW0763	1211036-05RE1	009F0901.D	11/08/12 21:21
GW0802	1211036-07RE1	010F1001.D	11/08/12 21:59
GW0803	1211036-09RE1	011F1101.D	11/08/12 22:38
GW0804	1211036-11RE1	012F1201.D	11/08/12 23:17
GW0813	1211036-15RE1	013F1301.D	11/08/12 23:55
GW0813	2K08020-MS1	014F1401.D	11/09/12 00:33
GW0813	2K08020-MSD1	015F1501.D	11/09/12 01:12
GW0814	1211036-17RE1	016F1601.D	11/09/12 01:50
GW0832	1211036-19RE1	017F1701.D	11/09/12 02:28
GW0832	2K08020-MS2	018F1801.D	11/09/12 03:07
GW0832	2K08020-MSD2	019F1901.D	11/09/12 03:45
GW0762	1211036-03RE1	020F2001.D	11/09/12 04:24
GW0812	1211036-13RE1	021F2101.D	11/09/12 05:03
Calibration Check	2K31717-CCV3	022F2201.D	11/09/12 05:42

INITIAL CALIBRATION DATA

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2216001	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	7/31/12_15:05	7/31/12_18:24

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Gasoline Range Organics (C6-C10	0.1	2233630	0.2	1477410	0.5	1120412	1	946984	2	1011274	5	961363.4
Bromofluorobenzene	0.01	1563200	0.02	941550	0.05	566820	0.1	481890	0.2	490520	0.5	412342

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2216001	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	7/31/12 15:05	7/31/12 18:24

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	1291846	38.82256	7.807	0.017641	0.9992676		0.995	
Bromofluorobenzene	742720.3	59.74288	20.3135	9.003825E-03	0.9969704		0.995	

INITIAL CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 15:05
Sequence:	2H21611	Injection Date:	08/02/12
Lab Sample ID:	2H21611-ICV1	Injection Time:	14:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4958	1291846	1119582		-0.8	20
Bromofluorobenzene	L	0.05000	0.04848	742720.3	607700		-3.0	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 15:05
Sequence:	2K31601	Injection Date:	11/01/12
Lab Sample ID:	2K31601-CCV1	Injection Time:	22:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5067	1291846	1140148		1.3	20
Bromofluorobenzene	L	0.05000	0.04153	742720.3	552780		-16.9	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	014F1401.D	Calibration Date:	07/31/12 15:05
Sequence:	2K31601	Injection Date:	11/02/12
Lab Sample ID:	2K31601-CCV2	Injection Time:	05:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4115	1291846	960510		-17.7	20
Bromofluorobenzene	L	0.05000	0.04359	742720.3	569040		-12.8	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	027F2701.D	Calibration Date:	07/31/12 15:05
Sequence:	2K31601	Injection Date:	11/02/12
Lab Sample ID:	2K31601-CCV3	Injection Time:	13:39

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4720	1291846	1074816		-5.6	20
Bromofluorobenzene	L	0.05000	0.04013	742720.3	541700		-19.7	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 15:05
Sequence:	2K31603	Injection Date:	11/06/12
Lab Sample ID:	2K31603-CCV1	Injection Time:	19:35

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4613	1291846	1054608		-7.7	20
Bromofluorobenzene	L	0.05000	0.04181	742720.3	554940		-16.4	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	021F2101.D	Calibration Date:	07/31/12 15:05
Sequence:	2K31603	Injection Date:	11/07/12
Lab Sample ID:	2K31603-CCV2	Injection Time:	07:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5474	1291846	1216932		9.5	20
Bromofluorobenzene	L	0.05000	0.04426	742720.3	574320		-11.5	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	024F2401.D	Calibration Date:	07/31/12 15:05
Sequence:	2K31603	Injection Date:	11/07/12
Lab Sample ID:	2K31603-CCV3	Injection Time:	08:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4451	1291846	1024026		-11.0	20
Bromofluorobenzene	L	0.05000	0.04324	742720.3	566240		-13.5	20

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	003F0301.D	Calibration Date:	07/31/12 15:05
Sequence:	2K31717	Injection Date:	11/08/12
Lab Sample ID:	2K31717-CCV1	Injection Time:	17:34

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4387	1291846	1011842		-12.3	20
Bromofluorobenzene	L	0.05000	0.03797	742720.3	524620		-24.1	20 *

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	008F0801.D	Calibration Date:	07/31/12 15:05
Sequence:	2K31717	Injection Date:	11/08/12
Lab Sample ID:	2K31717-CCV2	Injection Time:	20:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.3570	1291846	857780		-28.6	20 *
Bromofluorobenzene	L	0.05000	0.03300	742720.3	485260		-34.0	20 *

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	2216001
Lab File ID:	022F2201.D	Calibration Date:	07/31/12 15:05
Sequence:	2K31717	Injection Date:	11/09/12
Lab Sample ID:	2K31717-CCV3	Injection Time:	05:42

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.3980	1291846	935152		-20.4	20 *
Bromofluorobenzene	L	0.05000	0.04033	742720.3	543260		-19.3	20

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0786	10/30/12 15:41	10/31/12 08:30	11/01/12 22:00	N/A	14.00	11/02/12 05:58	2.55	14.00	
GW0787	10/30/12 13:25	10/31/12 08:30	11/01/12 22:00	N/A	14.00	11/02/12 06:36	2.67	14.00	
GW0788	10/30/12 11:05	10/31/12 08:30	11/01/12 22:00	N/A	14.00	11/02/12 07:15	2.80	14.00	
GW0848	10/29/12 16:50	10/31/12 08:30	11/01/12 22:00	N/A	14.00	11/02/12 07:53	3.59	14.00	
GW0849	10/29/12 14:00	10/31/12 08:30	11/01/12 22:00	N/A	14.00	11/02/12 08:31	3.73	14.00	
GW0850	10/29/12 11:17	10/31/12 08:30	11/01/12 22:00	N/A	14.00	11/02/12 10:26	3.92	14.00	
GW0755	11/01/12 12:13	11/02/12 08:15	11/06/12 22:06	N/A	14.00	11/06/12 22:06	5.37	14.00	
GW0762	11/01/12 15:33	11/02/12 08:15	11/09/12 04:24	N/A	14.00	11/09/12 04:24	7.49	14.00	
GW0763	11/01/12 09:34	11/02/12 08:15	11/08/12 21:21	N/A	14.00	11/08/12 21:21	7.45	14.00	
GW0802	10/31/12 15:32	11/02/12 08:15	11/08/12 21:59	N/A	14.00	11/08/12 21:59	8.23	14.00	
GW0803	10/31/12 13:17	11/02/12 08:15	11/08/12 22:38	N/A	14.00	11/08/12 22:38	8.35	14.00	
GW0804	10/31/12 10:51	11/02/12 08:15	11/08/12 23:17	N/A	14.00	11/08/12 23:17	8.48	14.00	
GW0812	10/31/12 16:27	11/02/12 08:15	11/09/12 05:03	N/A	14.00	11/09/12 05:03	8.48	14.00	
GW0813	10/31/12 13:44	11/02/12 08:15	11/08/12 23:55	N/A	14.00	11/08/12 23:55	8.38	14.00	
GW0814	10/31/12 11:21	11/02/12 08:15	11/09/12 01:50	N/A	14.00	11/09/12 01:50	8.56	14.00	
GW0832	11/01/12 13:37	11/02/12 08:15	11/09/12 02:28	N/A	14.00	11/09/12 02:28	7.49	14.00	
GW0833	11/01/12 11:17	11/02/12 08:15	11/07/12 07:40	N/A	14.00	11/07/12 07:40	5.81	14.00	

PREPARATION BENCH SHEET

2K01029

Empirical Laboratories, LLC

Printed: 11/18/2012 1:25:51PM

Instrument:

Matrix: Water **Prepared using: GCLC - 8015GRO** **Surrogate used: 12J0399**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210230-03RE1	E	VGC_GRO_8015B	11/01/2012	5	5				20	2	From 2J26021 by JST on 11/01/2012 rr@5x
1210230-05RE1	E	VGC_GRO_8015B	11/01/2012	5	5				20	2	Rerun, carryover; From 2J30412 by JST on 11/01/2012
1210230-17RE1	E	VGC_GRO_8015B	11/01/2012	5	5				20	2	From 2J26021 by JST on 11/01/2012 rr@10x
1210230-19RE1	E	VGC_GRO_8015B	11/01/2012	5	5				20	2	Rerun, carryover; From 2J30412 by JST on 11/01/2012
1210265-07RE1	F	VGC_GRO_8015B	11/01/2012	5	5				20	2	From 2J30412 by JST on 11/01/2012 rr@20x
1210265-09RE1	F	VGC_GRO_8015B	11/01/2012	5	5				20	2	Rerun, carryover; From 2J30412 by JST on 11/01/2012
1210265-11RE1	F	VGC_GRO_8015B	11/01/2012	5	5				20	2	Rerun, carryover; From 2J30412 by JST on 11/01/2012
1210265-13RE1	F	VGC_GRO_8015B	11/01/2012	5	5				20	2	From 2J30412 by JST on 11/01/2012 rr@25x
1210265-15RE1	F	VGC_GRO_8015B	11/01/2012	5	5				20	2	From 2J30412 by JST on 11/01/2012 rr@5x
1210265-17RE1	F	VGC_GRO_8015B	11/01/2012	5	5				20	2	From 2J30412 by JST on 11/01/2012 rr@5x
1210265-19RE1	F	VGC_GRO_8015B	11/01/2012	5	5				20	2	Rerun, carryover; From 2J30412 by JST on 11/01/2012
1210265-21RE1	F	VGC_GRO_8015B	11/01/2012	5	5				20	2	Rerun, carryover; From 2J30412 by JST on 11/01/2012
1210265-23RE1	F	VGC_GRO_8015B	11/01/2012	5	5				20	2	Rerun, carryover; From 2J30412 by JST on 11/01/2012
1210292-01	D	VGC_GRO_8015B	11/01/2012	5	5				20	2	
1210292-03	D	VGC_GRO_8015B	11/01/2012	5	5				20	2	
1210292-05	D	VGC_GRO_8015B	11/01/2012	5	5				20	2	
1210292-07	D	VGC_GRO_8015B	11/01/2012	5	5				20	2	
1210292-09	J	VGC_GRO_8015B	11/01/2012	5	5				20	2	MS/MSD
1210292-11	D	VGC_GRO_8015B	11/01/2012	5	5				20	2	
2K01029-BLK1		QC	11/01/2012	5	5				20	NA	
2K01029-BS1		QC	11/01/2012	5	5	12G0753		5	20	NA	
2K01029-BSD1		QC	11/01/2012	5	5	12G0753		5	20	NA	

PREPARATION BENCH SHEET

2K01029

Empirical Laboratories, LLC

Printed: 11/18/2012 1:25:51PM

Instrument:

Matrix: Water **Prepared using: GCLC - 8015GRO** **Surrogate used: 12J0399**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K01029-MS1		QC	11/01/2012	5	5	12G0753	1210292-09	5	20	NA	
2K01029-MSD1		QC	11/01/2012	5	5	12G0753	1210292-09	5	20	NA	

Reagents Used:

Standard	Description

PREPARATION BENCH SHEET

2K06017

Empirical Laboratories, LLC

Printed: 11/26/2012 1:56:38PM

Instrument:

Matrix: Water **Prepared using: GCLC - 8015GRO** **Surrogate used: 12J0399**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-01	D	VGC_GRO_8015B	11/06/2012	5	5				20	2	
1211036-03	D	VGC_GRO_8015B	11/06/2012	5	5				20	2	
1211036-05	D	VGC_GRO_8015B	11/06/2012	5	5				20	2	
1211036-07	D	VGC_GRO_8015B	11/06/2012	5	5				20	2	
1211036-09	D	VGC_GRO_8015B	11/06/2012	5	5				20	2	
1211036-11	D	VGC_GRO_8015B	11/07/2012	5	5				20	2	
1211036-13	D	VGC_GRO_8015B	11/07/2012	5	5				20	2	
1211036-15	D	VGC_GRO_8015B	11/07/2012	5	5				20	2	MS/MSD
1211036-17	D	VGC_GRO_8015B	11/07/2012	5	5				20	2	
1211036-19	D	VGC_GRO_8015B	11/07/2012	5	5				20	2	MS/MSD
1211036-21	D	VGC_GRO_8015B	11/07/2012	5	5				20	2	
1211037-13	K	VGC_GRO_8015B	11/07/2012	5	5				20	2	TN GRO
2K06017-BLK1		QC	11/06/2012	5	5				20	NA	
2K06017-BS1		QC	11/06/2012	5	5	12G0753		5	20	NA	
2K06017-BSD1		QC	11/06/2012	5	5	12G0753		5	20	NA	
2K06017-MS1		QC	11/07/2012	5	5	12G0753	1211036-15	5	20	NA	
2K06017-MS2		QC	11/07/2012	5	5	12G0753	1211036-19	5	20	NA	
2K06017-MSD1		QC	11/07/2012	5	5	12G0753	1211036-15	5	20	NA	
2K06017-MSD2		QC	11/07/2012	5	5	12G0753	1211036-19	5	20	NA	

Reagents Used:

Standard	Description

PREPARATION BENCH SHEET

2K06017

Empirical Laboratories, LLC

Printed: 11/26/2012 1:56:38PM

Instrument:

Matrix: Water

Prepared using: GCLC - 8015GRO

Surrogate used: 12J0399

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

PREPARATION BENCH SHEET

2K08020

Empirical Laboratories, LLC

Printed: 11/19/2012 1:59:36PM

Instrument:

Matrix: Water **Prepared using: GCLC - 8015GRO** **Surrogate used: 12J0399**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-03RE1	D	VGC_GRO_8015B	11/09/2012	5	5				20	2	50x; From 2K06017 by PRC on 11/08/2012
1211036-05RE1	D	VGC_GRO_8015B	11/08/2012	5	5				20	2	Rerun1x, Carryover; From 2K06017 by PRC on 11/08/2012
1211036-07RE1	D	VGC_GRO_8015B	11/08/2012	5	5				20	2	Rerun1x, Carryover; From 2K06017 by PRC on 11/08/2012
1211036-09RE1	D	VGC_GRO_8015B	11/08/2012	5	5				20	2	Rerun1x, Carryover; From 2K06017 by PRC on 11/08/2012
1211036-11RE1	D	VGC_GRO_8015B	11/08/2012	5	5				20	2	Rerun1x, Carryover; From 2K06017 by PRC on 11/08/2012
1211036-13RE1	D	VGC_GRO_8015B	11/09/2012	5	5				20	2	50x; From 2K06017 by PRC on 11/08/2012
1211036-15RE1	D	VGC_GRO_8015B	11/08/2012	5	5				20	2	Rerun 1x, Carryover; MS/MSD
1211036-17RE1	D	VGC_GRO_8015B	11/09/2012	5	5				20	2	Rerun1x, Carryover; From 2K06017 by PRC on 11/08/2012
1211036-19RE1	D	VGC_GRO_8015B	11/09/2012	5	5				20	2	Rerun 1x, Carryover; MS/MSD
1211075-02	D	VGC_GRO_8015B	11/08/2012	5	5				20	2	
2K08020-BLK1		QC	11/08/2012	5	5				20	NA	
2K08020-BS1		QC	11/08/2012	5	5	12G0753		5	20	NA	
2K08020-BSD1		QC	11/08/2012	5	5	12G0753		5	20	NA	
2K08020-MS1		QC	11/09/2012	5	5	12G0753	1211036-15RE1	5	20	NA	
2K08020-MS2		QC	11/09/2012	5	5	12G0753	1211036-19RE1	5	20	NA	
2K08020-MSD1		QC	11/09/2012	5	5	12G0753	1211036-15RE1	5	20	NA	
2K08020-MSD2		QC	11/09/2012	5	5	12G0753	1211036-19RE1	5	20	NA	

Reagents Used:

Standard	Description

From 2K06017 on 11/8/2012 by PRC

Data for SW6010B Forms

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1210292-02 [GW0786]	2K02003	50.00/50.00	50.0	50.0	1.00			11/02/12
1210292-04 [GW0787]	2K02003	50.00/50.00	50.0	50.0	1.00			11/02/12
1210292-06 [GW0788]	2K02003	50.00/50.00	50.0	50.0	1.00			11/02/12
1210292-08 [GW0848]	2K02003	50.00/50.00	50.0	50.0	1.00			11/02/12
1210292-10 [GW0849]	2K02003	50.00/50.00	50.0	50.0	1.00			11/02/12
1210292-12 [GW0850]	2K02003	50.00/50.00	50.0	50.0	1.00			11/02/12

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1210292-01 [GW0786]	2K09013	50.00/50.00	50.0	50.0	1.00			11/09/12
1210292-03 [GW0787]	2K09013	50.00/50.00	50.0	50.0	1.00			11/09/12
1210292-05 [GW0788]	2K09013	50.00/50.00	50.0	50.0	1.00			11/09/12
1210292-07 [GW0848]	2K09013	50.00/50.00	50.0	50.0	1.00			11/09/12
1210292-09 [GW0849]	2K09013	50.00/50.00	50.0	50.0	1.00			11/09/12
1210292-11 [GW0850]	2K09013	50.00/50.00	50.0	50.0	1.00			11/09/12
1211036-01 [GW0755]	2K09013	50.00/50.00	50.0	50.0	1.00			11/09/12
1211036-03 [GW0762]	2K09013	50.00/50.00	50.0	50.0	1.00			11/09/12
1211036-05 [GW0763]	2K09013	50.00/50.00	50.0	50.0	1.00			11/09/12
1211036-07 [GW0802]	2K09013	50.00/50.00	50.0	50.0	1.00			11/09/12
1211036-09 [GW0803]	2K09013	50.00/50.00	50.0	50.0	1.00			11/09/12
1211036-11 [GW0804]	2K09013	50.00/50.00	50.0	50.0	1.00			11/09/12
1211036-13 [GW0812]	2K09013	50.00/50.00	50.0	50.0	1.00			11/09/12

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-02 [GW0755]	2K13008	50.00/50.00	50.0	50.0	1.00			11/13/12
1211036-04 [GW0762]	2K13008	50.00/50.00	50.0	50.0	1.00			11/13/12
1211036-06 [GW0763]	2K13008	50.00/50.00	50.0	50.0	1.00			11/13/12
1211036-08 [GW0802]	2K13008	50.00/50.00	50.0	50.0	1.00			11/13/12
1211036-10 [GW0803]	2K13008	50.00/50.00	50.0	50.0	1.00			11/13/12
1211036-12 [GW0804]	2K13008	50.00/50.00	50.0	50.0	1.00			11/13/12
1211036-14 [GW0812]	2K13008	50.00/50.00	50.0	50.0	1.00			11/13/12
1211036-16 [GW0813]	2K13008	50.00/50.00	50.0	50.0	1.00			11/13/12
1211036-18 [GW0814]	2K13008	50.00/50.00	50.0	50.0	1.00			11/13/12
1211036-20 [GW0832]	2K13008	50.00/50.00	50.0	50.0	1.00			11/13/12
1211036-22 [GW0833]	2K13008	50.00/50.00	50.0	50.0	1.00			11/13/12

Sample Extraction Data

Prep Method: MET_3005A-SW6010B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-15 [GW0813]	2K14014	50.00/50.00	50.0	50.0	1.00			11/14/12
1211036-17 [GW0814]	2K14014	50.00/50.00	50.0	50.0	1.00			11/14/12
1211036-19 [GW0832]	2K14014	50.00/50.00	50.0	50.0	1.00			11/14/12
1211036-21 [GW0833]	2K14014	50.00/50.00	50.0	50.0	1.00			11/14/12

ANALYSIS DATA SHEET

GW0786

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-01
Sampled:	10/30/12 15:41	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**42900**	1000	2000	5000	1		SW6010B	2K09013	11/13/12 16:43
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K09013	11/13/12 16:43
7439-95-4	Magnesium	**5760**	1000	3000	5000	1		SW6010B	2K09013	11/13/12 16:43
7440-09-7	Potassium	**2210**	1000	3000	5000	1	J	SW6010B	2K09013	11/13/12 16:43
7440-23-5	Sodium	**26400**	1000	3000	5000	1		SW6010B	2K09013	11/13/12 16:43

ANALYSIS DATA SHEET

GW0786

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-02
Sampled:	10/30/12 15:41	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K02003	11/02/12 13:50
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K02003	11/02/12 13:50

ANALYSIS DATA SHEET

GW0787

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-03
Sampled:	10/30/12 13:25	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**66100**	1000	2000	5000	1		SW6010B	2K09013	11/13/12 16:47
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K09013	11/13/12 16:47
7439-95-4	Magnesium	**8760**	1000	3000	5000	1		SW6010B	2K09013	11/13/12 16:47
7440-09-7	Potassium	**2720**	1000	3000	5000	1	J	SW6010B	2K09013	11/13/12 16:47
7440-23-5	Sodium	**31600**	1000	3000	5000	1		SW6010B	2K09013	11/13/12 16:47

ANALYSIS DATA SHEET

GW0787

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-04
Sampled:	10/30/12 13:25	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K02003	11/02/12 13:54
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K02003	11/02/12 13:54

ANALYSIS DATA SHEET

GW0788

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-05
Sampled:	10/30/12 11:05	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**41500**	1000	2000	5000	1		SW6010B	2K09013	11/13/12 16:52
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K09013	11/13/12 16:52
7439-95-4	Magnesium	**5630**	1000	3000	5000	1		SW6010B	2K09013	11/13/12 16:52
7440-09-7	Potassium	**2180**	1000	3000	5000	1	J	SW6010B	2K09013	11/13/12 16:52
7440-23-5	Sodium	**24700**	1000	3000	5000	1		SW6010B	2K09013	11/13/12 16:52

ANALYSIS DATA SHEET

GW0788

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-06
Sampled:	10/30/12 11:05	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K02003	11/02/12 13:59
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K02003	11/02/12 13:59

ANALYSIS DATA SHEET

GW0848

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-07
Sampled:	10/29/12 16:50	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**54100**	1000	2000	5000	1		SW6010B	2K09013	11/12/12 20:05
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K09013	11/12/12 20:05
7439-95-4	Magnesium	**7440**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:05
7440-09-7	Potassium	**2720**	1000	3000	5000	1	J	SW6010B	2K09013	11/12/12 20:05
7440-23-5	Sodium	**25100**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:05

ANALYSIS DATA SHEET

GW0848

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-08
Sampled:	10/29/12 16:50	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K02003	11/02/12 14:03
7439-96-5	Manganese (dissolved)	**20.0**	3.00	6.00	15.0	1		SW6010B	2K02003	11/02/12 14:03

ANALYSIS DATA SHEET

GW0849

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-09
Sampled:	10/29/12 14:00	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**49500**	1000	2000	5000	1		SW6010B	2K09013	11/12/12 20:09
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K09013	11/12/12 20:09
7439-95-4	Magnesium	**6680**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:09
7440-09-7	Potassium	**2450**	1000	3000	5000	1	J	SW6010B	2K09013	11/12/12 20:09
7440-23-5	Sodium	**23700**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:09

ANALYSIS DATA SHEET

GW0849

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-10
Sampled:	10/29/12 14:00	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**43.4**	30.0	60.0	100	1	J	SW6010B	2K02003	11/02/12 14:08
7439-96-5	Manganese (dissolved)	**181**	3.00	6.00	15.0	1		SW6010B	2K02003	11/02/12 14:08

ANALYSIS DATA SHEET

GW0850

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-11
Sampled:	10/29/12 11:17	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**31900**	1000	2000	5000	1		SW6010B	2K09013	11/12/12 20:32
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K09013	11/12/12 20:32
7439-95-4	Magnesium	**4330**	1000	3000	5000	1	J	SW6010B	2K09013	11/12/12 20:32
7440-09-7	Potassium	**2010**	1000	3000	5000	1	J	SW6010B	2K09013	11/12/12 20:32
7440-23-5	Sodium	**19900**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:32

ANALYSIS DATA SHEET

GW0850

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-12
Sampled:	10/29/12 11:17	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K02003	11/02/12 14:26
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K02003	11/02/12 14:26

ANALYSIS DATA SHEET

GW0755

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-01
Sampled:	11/01/12 12:13	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**48400**	1000	2000	5000	1		SW6010B	2K09013	11/12/12 20:37
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K09013	11/12/12 20:37
7439-95-4	Magnesium	**7380**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:37
7440-09-7	Potassium	**2480**	1000	3000	5000	1	J	SW6010B	2K09013	11/12/12 20:37
7440-23-5	Sodium	**22900**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:37

ANALYSIS DATA SHEET

GW0755

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-02
Sampled:	11/01/12 12:13	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K13008	11/13/12 13:15
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K13008	11/13/12 13:15

ANALYSIS DATA SHEET

GW0762

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-03
Sampled:	11/01/12 15:33	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**84500**	1000	2000	5000	1		SW6010B	2K09013	11/12/12 20:41
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K09013	11/12/12 20:41
7439-95-4	Magnesium	**12300**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:41
7440-09-7	Potassium	**2930**	1000	3000	5000	1	J	SW6010B	2K09013	11/12/12 20:41
7440-23-5	Sodium	**30900**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:41

ANALYSIS DATA SHEET

GW0762

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-04
Sampled:	11/01/12 15:33	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**39.4**	30.0	60.0	100	1	J	SW6010B	2K13008	11/13/12 13:20
7439-96-5	Manganese (dissolved)	**1190**	3.00	6.00	15.0	1		SW6010B	2K13008	11/13/12 13:20

ANALYSIS DATA SHEET

GW0763

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-05
Sampled:	11/01/12 09:34	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**44300**	1000	2000	5000	1		SW6010B	2K09013	11/12/12 20:46
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K09013	11/12/12 20:46
7439-95-4	Magnesium	**6070**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:46
7440-09-7	Potassium	**2220**	1000	3000	5000	1	J	SW6010B	2K09013	11/12/12 20:46
7440-23-5	Sodium	**24000**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:46

ANALYSIS DATA SHEET

GW0763

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-06
Sampled:	11/01/12 09:34	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K13008	11/13/12 13:24
7439-96-5	Manganese (dissolved)	**6.53**	3.00	6.00	15.0	1	J	SW6010B	2K13008	11/13/12 13:24

ANALYSIS DATA SHEET

GW0802

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-07
Sampled:	10/31/12 15:32	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**190000**	1000	2000	5000	1		SW6010B	2K09013	11/12/12 20:50
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K09013	11/12/12 20:50
7439-95-4	Magnesium	**26500**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:50
7440-09-7	Potassium	**4270**	1000	3000	5000	1	J	SW6010B	2K09013	11/12/12 20:50
7440-23-5	Sodium	**37500**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:50

ANALYSIS DATA SHEET

GW0802

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-08
Sampled:	10/31/12 15:32	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K13008	11/13/12 14:00
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K13008	11/13/12 14:00

ANALYSIS DATA SHEET

GW0803

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-09
Sampled:	10/31/12 13:17	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**64600**	1000	2000	5000	1		SW6010B	2K09013	11/12/12 20:55
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K09013	11/12/12 20:55
7439-95-4	Magnesium	**9060**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:55
7440-09-7	Potassium	**2930**	1000	3000	5000	1	J	SW6010B	2K09013	11/12/12 20:55
7440-23-5	Sodium	**26400**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:55

ANALYSIS DATA SHEET

GW0803

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-10
Sampled:	10/31/12 13:17	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K13008	11/13/12 14:05
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K13008	11/13/12 14:05

ANALYSIS DATA SHEET

GW0804

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-11
Sampled:	10/31/12 10:51	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**45000**	1000	2000	5000	1		SW6010B	2K09013	11/12/12 20:59
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K09013	11/12/12 20:59
7439-95-4	Magnesium	**6310**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:59
7440-09-7	Potassium	**2360**	1000	3000	5000	1	J	SW6010B	2K09013	11/12/12 20:59
7440-23-5	Sodium	**21900**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:59

ANALYSIS DATA SHEET

GW0804

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-12
Sampled:	10/31/12 10:51	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K13008	11/13/12 14:09
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K13008	11/13/12 14:09

ANALYSIS DATA SHEET

GW0812

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-13
Sampled:	10/31/12 16:27	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**88500**	1000	2000	5000	1		SW6010B	2K09013	11/12/12 21:04
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K09013	11/12/12 21:04
7439-95-4	Magnesium	**13900**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 21:04
7440-09-7	Potassium	**3110**	1000	3000	5000	1	J	SW6010B	2K09013	11/12/12 21:04
7440-23-5	Sodium	**30500**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 21:04

ANALYSIS DATA SHEET

GW0812

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-14
Sampled:	10/31/12 16:27	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**490**	30.0	60.0	100	1		SW6010B	2K13008	11/13/12 14:13
7439-96-5	Manganese (dissolved)	**2440**	3.00	6.00	15.0	1		SW6010B	2K13008	11/13/12 14:13

ANALYSIS DATA SHEET

GW0813

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-15
Sampled:	10/31/12 13:44	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**44700**	1000	2000	5000	1		SW6010B	2K14014	11/15/12 13:10
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K14014	11/15/12 13:10
7439-95-4	Magnesium	**6210**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 13:10
7440-09-7	Potassium	**2330**	1000	3000	5000	1	J	SW6010B	2K14014	11/15/12 13:10
7440-23-5	Sodium	**24300**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 13:10

ANALYSIS DATA SHEET

GW0813

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-16
Sampled:	10/31/12 13:44	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K13008	11/13/12 13:29
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K13008	11/13/12 13:29

ANALYSIS DATA SHEET

GW0814

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-17
Sampled:	10/31/12 11:21	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**31300**	1000	2000	5000	1		SW6010B	2K14014	11/15/12 13:33
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K14014	11/15/12 13:33
7439-95-4	Magnesium	**4230**	1000	3000	5000	1	J	SW6010B	2K14014	11/15/12 13:33
7440-09-7	Potassium	**1830**	1000	3000	5000	1	J	SW6010B	2K14014	11/15/12 13:33
7440-23-5	Sodium	**20300**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 13:33

ANALYSIS DATA SHEET

GW0814

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-18
Sampled:	10/31/12 11:21	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K13008	11/13/12 14:18
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K13008	11/13/12 14:18

ANALYSIS DATA SHEET

GW0832

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/01/12 13:37
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 1211036-19
Received: 11/02/12 08:15

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**34000**	1000	2000	5000	1		SW6010B	2K14014	11/15/12 14:02
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K14014	11/15/12 14:02
7439-95-4	Magnesium	**4740**	1000	3000	5000	1	J	SW6010B	2K14014	11/15/12 14:02
7440-09-7	Potassium	**1960**	1000	3000	5000	1	J	SW6010B	2K14014	11/15/12 14:02
7440-23-5	Sodium	**20900**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 14:02

ANALYSIS DATA SHEET

GW0832

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-20
Sampled:	10/31/12 13:37	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K13008	11/13/12 14:23
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K13008	11/13/12 14:23

ANALYSIS DATA SHEET

GW0833

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 11/01/12 11:17
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 1211036-21
Received: 11/02/12 08:15

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**31900**	1000	2000	5000	1		SW6010B	2K14014	11/15/12 13:37
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2K14014	11/15/12 13:37
7439-95-4	Magnesium	**4300**	1000	3000	5000	1	J	SW6010B	2K14014	11/15/12 13:37
7440-09-7	Potassium	**1890**	1000	3000	5000	1	J	SW6010B	2K14014	11/15/12 13:37
7440-23-5	Sodium	**20800**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 13:37

ANALYSIS DATA SHEET

GW0833

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-22
Sampled:	11/01/12 11:17	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	2K13008	11/13/12 14:41
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2K13008	11/13/12 14:41

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K02003-BLK1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	ND	30.0	60.0	100	1	U	SW6010B	2K02003	11/02/12 13:16
7439-96-5	Manganese (dissolved)	ND	3.00	6.00	15.0	1	U	SW6010B	2K02003	11/02/12 13:16

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K02003-BS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**1116**	30.0	60.0	100	1		SW6010B	2K02003	11/02/12 13:21
7439-96-5	Manganese (dissolved)	**557.8**	3.00	6.00	15.0	1		SW6010B	2K02003	11/02/12 13:21

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K02003-DUP1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	ND	150	300	500	5	U	SW6010B	2K02003	11/02/12 14:22
7439-96-5	Manganese (dissolved)	**187.0**	15.0	30.0	75.0	5	D	SW6010B	2K02003	11/02/12 14:22

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K02003-MS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**1103**	30.0	60.0	100	1		SW6010B	2K02003	11/02/12 14:12
7439-96-5	Manganese (dissolved)	**662.2**	3.00	6.00	15.0	1		SW6010B	2K02003	11/02/12 14:12

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K02003-MSD1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**1086**	30.0	60.0	100	1		SW6010B	2K02003	11/02/12 14:17
7439-96-5	Manganese (dissolved)	**673.4**	3.00	6.00	15.0	1		SW6010B	2K02003	11/02/12 14:17

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K09013-BLK1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	ND	1000	2000	5000	1	U	SW6010B	2K09013	11/13/12 16:01
7439-92-1	Lead	ND	1.50	3.00	3.00	1	U	SW6010B	2K09013	11/13/12 16:01
7439-95-4	Magnesium	ND	1000	3000	5000	1	U	SW6010B	2K09013	11/13/12 16:01
7440-09-7	Potassium	ND	1000	3000	5000	1	U	SW6010B	2K09013	11/13/12 16:01
7440-23-5	Sodium	ND	1000	3000	5000	1	U	SW6010B	2K09013	11/13/12 16:01

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K09013-BS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**4870**	1000	2000	5000	1	J	SW6010B	2K09013	11/13/12 16:05
7439-92-1	Lead	**242.1**	1.50	3.00	3.00	1		SW6010B	2K09013	11/13/12 16:05
7439-95-4	Magnesium	**4806**	1000	3000	5000	1	J	SW6010B	2K09013	11/13/12 16:05
7440-09-7	Potassium	**4746**	1000	3000	5000	1	J	SW6010B	2K09013	11/13/12 16:05
7440-23-5	Sodium	**4939**	1000	3000	5000	1	J	SW6010B	2K09013	11/13/12 16:05

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K09013-DUP1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**51000**	5000	10000	25000	5	D	SW6010B	2K09013	11/12/12 20:28
7439-92-1	Lead	ND	7.50	15.0	15.0	5	U	SW6010B	2K09013	11/12/12 20:28
7439-95-4	Magnesium	**6957**	5000	15000	25000	5	J D	SW6010B	2K09013	11/12/12 20:28
7440-09-7	Potassium	ND	5000	15000	25000	5	U	SW6010B	2K09013	11/12/12 20:28
7440-23-5	Sodium	**24450**	5000	15000	25000	5	J D	SW6010B	2K09013	11/12/12 20:28

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 2K09013-MS1
% Solids: 0.00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**54650**	1000	2000	5000	1		SW6010B	2K09013	11/12/12 20:14
7439-92-1	Lead	**232.8**	1.50	3.00	3.00	1		SW6010B	2K09013	11/12/12 20:14
7439-95-4	Magnesium	**11580**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:14
7440-09-7	Potassium	**7167**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:14
7440-23-5	Sodium	**28570**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:14

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K09013-MSD1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**54410**	1000	2000	5000	1		SW6010B	2K09013	11/12/12 20:18
7439-92-1	Lead	**232.3**	1.50	3.00	3.00	1		SW6010B	2K09013	11/12/12 20:18
7439-95-4	Magnesium	**11490**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:18
7440-09-7	Potassium	**7109**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:18
7440-23-5	Sodium	**28470**	1000	3000	5000	1		SW6010B	2K09013	11/12/12 20:18

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K13008-BLK1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	ND	30.0	60.0	100	1	U	SW6010B	2K13008	11/13/12 12:37
7439-96-5	Manganese (dissolved)	ND	3.00	6.00	15.0	1	U	SW6010B	2K13008	11/13/12 12:37

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K13008-BS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**1030**	30.0	60.0	100	1		SW6010B	2K13008	11/13/12 12:42
7439-96-5	Manganese (dissolved)	**495.4**	3.00	6.00	15.0	1		SW6010B	2K13008	11/13/12 12:42

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K13008-DUP1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	ND	150	300	500	5	U	SW6010B	2K13008	11/13/12 13:43
7439-96-5	Manganese (dissolved)	ND	15.0	30.0	75.0	5	U	SW6010B	2K13008	11/13/12 13:43

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K13008-DUP2

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	ND	150	300	500	5	U	SW6010B	2K13008	11/13/12 14:37
7439-96-5	Manganese (dissolved)	ND	15.0	30.0	75.0	5	U	SW6010B	2K13008	11/13/12 14:37

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K13008-MS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**1003**	30.0	60.0	100	1		SW6010B	2K13008	11/13/12 13:33
7439-96-5	Manganese (dissolved)	**483.5**	3.00	6.00	15.0	1		SW6010B	2K13008	11/13/12 13:33

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K13008-MS2

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**999.5**	30.0	60.0	100	1		SW6010B	2K13008	11/13/12 14:27
7439-96-5	Manganese (dissolved)	**475.0**	3.00	6.00	15.0	1		SW6010B	2K13008	11/13/12 14:27

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K13008-MSD1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**986.8**	30.0	60.0	100	1		SW6010B	2K13008	11/13/12 13:37
7439-96-5	Manganese (dissolved)	**473.8**	3.00	6.00	15.0	1		SW6010B	2K13008	11/13/12 13:37

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K13008-MSD2

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	**993.3**	30.0	60.0	100	1		SW6010B	2K13008	11/13/12 14:31
7439-96-5	Manganese (dissolved)	**473.9**	3.00	6.00	15.0	1		SW6010B	2K13008	11/13/12 14:31

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14014-BLK1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	ND	1000	2000	5000	1	U	SW6010B	2K14014	11/15/12 12:32
7439-92-1	Lead	ND	1.50	3.00	3.00	1	U	SW6010B	2K14014	11/15/12 12:32
7439-95-4	Magnesium	ND	1000	3000	5000	1	U	SW6010B	2K14014	11/15/12 12:32
7440-09-7	Potassium	ND	1000	3000	5000	1	U	SW6010B	2K14014	11/15/12 12:32
7440-23-5	Sodium	ND	1000	3000	5000	1	U	SW6010B	2K14014	11/15/12 12:32

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14014-BS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**5425**	1000	2000	5000	1		SW6010B	2K14014	11/15/12 12:37
7439-92-1	Lead	**247.1**	1.50	3.00	3.00	1		SW6010B	2K14014	11/15/12 12:37
7439-95-4	Magnesium	**5112**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 12:37
7440-09-7	Potassium	**4992**	1000	3000	5000	1	J	SW6010B	2K14014	11/15/12 12:37
7440-23-5	Sodium	**5251**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 12:37

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14014-DUP1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**45440**	5000	10000	25000	5	D	SW6010B	2K14014	11/15/12 13:28
7439-92-1	Lead	ND	7.50	15.0	15.0	5	U	SW6010B	2K14014	11/15/12 13:28
7439-95-4	Magnesium	**6446**	5000	15000	25000	5	J D	SW6010B	2K14014	11/15/12 13:28
7440-09-7	Potassium	ND	5000	15000	25000	5	U	SW6010B	2K14014	11/15/12 13:28
7440-23-5	Sodium	**24670**	5000	15000	25000	5	J D	SW6010B	2K14014	11/15/12 13:28

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K14014-DUP2

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**35130**	5000	10000	25000	5	D	SW6010B	2K14014	11/15/12 14:20
7439-92-1	Lead	ND	7.50	15.0	15.0	5	U	SW6010B	2K14014	11/15/12 14:20
7439-95-4	Magnesium	ND	5000	15000	25000	5	U	SW6010B	2K14014	11/15/12 14:20
7440-09-7	Potassium	ND	5000	15000	25000	5	U	SW6010B	2K14014	11/15/12 14:20
7440-23-5	Sodium	**21560**	5000	15000	25000	5	J D	SW6010B	2K14014	11/15/12 14:20

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14014-MS1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**49810**	1000	2000	5000	1		SW6010B	2K14014	11/15/12 13:14
7439-92-1	Lead	**241.4**	1.50	3.00	3.00	1		SW6010B	2K14014	11/15/12 13:14
7439-95-4	Magnesium	**11170**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 13:14
7440-09-7	Potassium	**7191**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 13:14
7440-23-5	Sodium	**29290**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 13:14

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14014-MS2

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**38800**	1000	2000	5000	1		SW6010B	2K14014	11/15/12 14:06
7439-92-1	Lead	**236.9**	1.50	3.00	3.00	1		SW6010B	2K14014	11/15/12 14:06
7439-95-4	Magnesium	**9672**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 14:06
7440-09-7	Potassium	**6740**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 14:06
7440-23-5	Sodium	**25680**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 14:06

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14014-MSD1

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**51980**	1000	2000	5000	1		SW6010B	2K14014	11/15/12 13:19
7439-92-1	Lead	**244.1**	1.50	3.00	3.00	1		SW6010B	2K14014	11/15/12 13:19
7439-95-4	Magnesium	**11610**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 13:19
7440-09-7	Potassium	**7409**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 13:19
7440-23-5	Sodium	**30530**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 13:19

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14014-MSD2

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	**39350**	1000	2000	5000	1		SW6010B	2K14014	11/15/12 14:11
7439-92-1	Lead	**238.3**	1.50	3.00	3.00	1		SW6010B	2K14014	11/15/12 14:11
7439-95-4	Magnesium	**9969**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 14:11
7440-09-7	Potassium	**7003**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 14:11
7440-23-5	Sodium	**26140**	1000	3000	5000	1		SW6010B	2K14014	11/15/12 14:11

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_069
Project: Kirtland AFB 2011
Calibration: 2310002
Sequence: 2K31003

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31003-ICV1	Iron (dissolved)	10000	10380	104	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	979.0	97.9	ug/L	+/- 10.00%
2K31003-CCV1	Iron (dissolved)	10000	10310	103	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1002	100	ug/L	+/- 10.00%
2K31003-CCV3	Iron (dissolved)	10000	10350	103	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	989.7	99.0	ug/L	+/- 10.00%
2K31003-CCV4	Iron (dissolved)	10000	10370	104	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1028	103	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_069
Project: Kirtland AFB 2011
Calibration: 2318001
Sequence: 2K31801

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31801-ICV1	Calcium	50000	49810	99.6	ug/L	+/- 10.00%
	Lead	1000	972.8	97.3	ug/L	+/- 10.00%
	Magnesium	50000	49020	98.0	ug/L	+/- 10.00%
	Potassium	10000	9773	97.7	ug/L	+/- 10.00%
	Sodium	50000	49450	98.9	ug/L	+/- 10.00%
2K31801-CCV1	Calcium	50000	48790	97.6	ug/L	+/- 10.00%
	Lead	1000	950.6	95.1	ug/L	+/- 10.00%
	Magnesium	50000	48340	96.7	ug/L	+/- 10.00%
	Potassium	10000	9691	96.9	ug/L	+/- 10.00%
	Sodium	50000	48490	97.0	ug/L	+/- 10.00%
2K31801-CCV8	Calcium	50000	47250	94.5	ug/L	+/- 10.00%
	Lead	1000	922.3	92.2	ug/L	+/- 10.00%
	Magnesium	50000	47300	94.6	ug/L	+/- 10.00%
	Potassium	10000	9131	91.3	ug/L	+/- 10.00%
	Sodium	50000	46910	93.8	ug/L	+/- 10.00%
2K31801-CCV9	Calcium	50000	47480	95.0	ug/L	+/- 10.00%
	Lead	1000	933.4	93.3	ug/L	+/- 10.00%
	Magnesium	50000	47620	95.2	ug/L	+/- 10.00%
	Potassium	10000	9380	93.8	ug/L	+/- 10.00%
	Sodium	50000	47220	94.4	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_069
Project: Kirtland AFB 2011
Calibration: 2319005
Sequence: 2K31906

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31906-ICV1	Calcium	50000	52460	105	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10750	108	ug/L	+/- 10.00%
	Lead	1000	968.9	96.9	ug/L	+/- 10.00%
	Magnesium	50000	53260	107	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1019	102	ug/L	+/- 10.00%
	Potassium	10000	10170	102	ug/L	+/- 10.00%
	Sodium	50000	54290	109	ug/L	+/- 10.00%
2K31906-CCV1	Calcium	50000	46980	94.0	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9802	98.0	ug/L	+/- 10.00%
	Lead	1000	971.9	97.2	ug/L	+/- 10.00%
	Magnesium	50000	45760	91.5	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	949.0	94.9	ug/L	+/- 10.00%
	Potassium	10000	9279	92.8	ug/L	+/- 10.00%
	Sodium	50000	48260	96.5	ug/L	+/- 10.00%
2K31906-CCV2	Iron (dissolved)	10000	9912	99.1	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	968.1	96.8	ug/L	+/- 10.00%
2K31906-CCV3	Iron (dissolved)	10000	9963	99.6	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	966.1	96.6	ug/L	+/- 10.00%
2K31906-CCV4	Calcium	50000	47370	94.7	ug/L	+/- 10.00%
	Lead	1000	959.5	96.0	ug/L	+/- 10.00%
	Magnesium	50000	46920	93.8	ug/L	+/- 10.00%
	Potassium	10000	9404	94.0	ug/L	+/- 10.00%
	Sodium	50000	49070	98.1	ug/L	+/- 10.00%
2K31906-CCV5	Calcium	50000	48520	97.0	ug/L	+/- 10.00%
	Lead	1000	955.4	95.5	ug/L	+/- 10.00%
	Magnesium	50000	47830	95.7	ug/L	+/- 10.00%
	Potassium	10000	9514	95.1	ug/L	+/- 10.00%
	Sodium	50000	49680	99.4	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: Kirtland_069
Project: Kirtland AFB 2011
Calibration: 2321003
Sequence: 2K32110

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K32110-ICV1	Calcium	50000	51930	104	ug/L	+/- 10.00%
	Lead	1000	955.0	95.5	ug/L	+/- 10.00%
	Magnesium	50000	49780	99.6	ug/L	+/- 10.00%
	Potassium	10000	9994	99.9	ug/L	+/- 10.00%
	Sodium	50000	51630	103	ug/L	+/- 10.00%
2K32110-CCV1	Calcium	50000	51320	103	ug/L	+/- 10.00%
	Lead	1000	959.2	95.9	ug/L	+/- 10.00%
	Magnesium	50000	48350	96.7	ug/L	+/- 10.00%
	Potassium	10000	9865	98.7	ug/L	+/- 10.00%
	Sodium	50000	50310	101	ug/L	+/- 10.00%
2K32110-CCV2	Calcium	50000	51010	102	ug/L	+/- 10.00%
	Lead	1000	950.7	95.1	ug/L	+/- 10.00%
	Magnesium	50000	48020	96.0	ug/L	+/- 10.00%
	Potassium	10000	9725	97.3	ug/L	+/- 10.00%
	Sodium	50000	50060	100	ug/L	+/- 10.00%
2K32110-CCV3	Calcium	50000	50030	100	ug/L	+/- 10.00%
	Lead	1000	943.3	94.3	ug/L	+/- 10.00%
	Magnesium	50000	47750	95.5	ug/L	+/- 10.00%
	Potassium	10000	9494	94.9	ug/L	+/- 10.00%
	Sodium	50000	49120	98.2	ug/L	+/- 10.00%
2K32110-CCV4	Calcium	50000	49970	99.9	ug/L	+/- 10.00%
	Lead	1000	938.4	93.8	ug/L	+/- 10.00%
	Magnesium	50000	47650	95.3	ug/L	+/- 10.00%
	Potassium	10000	9385	93.9	ug/L	+/- 10.00%
	Sodium	50000	49030	98.1	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2310002

Sequence: 2K31003

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K31003-CRL1	Iron (dissolved)	60.00	63.75	106	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.129	102	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2318001

Sequence: 2K31801

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K31801-CRL1	Calcium	2000	2031	102	ug/L	80 - 120
	Lead	3.000	3.018	101	ug/L	80 - 120
	Magnesium	3000	3052	102	ug/L	80 - 120
	Potassium	3000	2951	98.4	ug/L	80 - 120
	Sodium	3000	2937	97.9	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2319005

Sequence: 2K31906

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K31906-CRL1	Calcium	2000	2202	110	ug/L	80 - 120
	Iron (dissolved)	60.00	68.75	115	ug/L	80 - 120
	Lead	3.000	2.926	97.5	ug/L	80 - 120
	Magnesium	3000	3227	108	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.555	109	ug/L	80 - 120
	Potassium	3000	3074	102	ug/L	80 - 120
	Sodium	3000	3163	105	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2321003

Sequence: 2K32110

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K32110-CRL1	Calcium	2000	2181	109	ug/L	80 - 120
	Lead	3.000	2.562	85.4	ug/L	80 - 120
	Magnesium	3000	3093	103	ug/L	80 - 120
	Potassium	3000	3072	102	ug/L	80 - 120
	Sodium	3000	3165	105	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2K31003
Calibration: 2310002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31003-ICB1	Iron (dissolved)	-0.5396	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	-0.02690	3.00	15.0	ug/L	U	SW6010B
2K31003-CCB1	Iron (dissolved)	16.2	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.107	3.00	15.0	ug/L	U	SW6010B
2K31003-CCB3	Iron (dissolved)	-2.65	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0415	3.00	15.0	ug/L	U	SW6010B
2K02003-BLK1	Iron (dissolved)	-0.831	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	-0.00705	3.00	15.0	ug/L	U	SW6010B
2K31003-CCB4	Iron (dissolved)	-3.00	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.112	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2K31801
Calibration: 2318001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31801-ICB1	Calcium	1.980	1000	5000	ug/L	U	SW6010B
	Lead	-0.2041	1.50	3.00	ug/L	U	SW6010B
	Magnesium	2.450	1000	5000	ug/L	U	SW6010B
	Potassium	0.4000	1000	5000	ug/L	U	SW6010B
	Sodium	-3.550	1000	5000	ug/L	U	SW6010B
2K31801-CCB1	Calcium	7.22	1000	5000	ug/L	U	SW6010B
	Lead	-0.483	1.50	3.00	ug/L	U	SW6010B
	Magnesium	3.61	1000	5000	ug/L	U	SW6010B
	Potassium	-12.8	1000	5000	ug/L	U	SW6010B
	Sodium	-1.25	1000	5000	ug/L	U	SW6010B
2K31801-CCB8	Calcium	6.09	1000	5000	ug/L	U	SW6010B
	Lead	-0.567	1.50	3.00	ug/L	U	SW6010B
	Magnesium	10.0	1000	5000	ug/L	U	SW6010B
	Potassium	16.1	1000	5000	ug/L	U	SW6010B
	Sodium	28.1	1000	5000	ug/L	U	SW6010B
2K31801-CCB9	Calcium	4.55	1000	5000	ug/L	U	SW6010B
	Lead	0.0478	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.600	1000	5000	ug/L	U	SW6010B
	Potassium	1.43	1000	5000	ug/L	U	SW6010B
	Sodium	17.2	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2K31906
Calibration: 2319005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31906-ICB1	Calcium	15.93	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	12.12	30.0	100	ug/L	U	SW6010B
	Lead	0.1535	1.50	3.00	ug/L	U	SW6010B
	Magnesium	23.62	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.01803	3.00	15.0	ug/L	U	SW6010B
	Potassium	4.860	1000	5000	ug/L	U	SW6010B
	Sodium	15.66	1000	5000	ug/L	U	SW6010B
2K31906-CCB1	Calcium	-0.580	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.00680	30.0	100	ug/L	U	SW6010B
	Lead	0.0525	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.220	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0496	3.00	15.0	ug/L	U	SW6010B
	Potassium	13.1	1000	5000	ug/L	U	SW6010B
	Sodium	-3.39	1000	5000	ug/L	U	SW6010B
2K13008-BLK1	Iron (dissolved)	4.26	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0355	3.00	15.0	ug/L	U	SW6010B
2K31906-CCB2	Iron (dissolved)	3.00	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.104	3.00	15.0	ug/L	U	SW6010B
2K31906-CCB3	Iron (dissolved)	1.02	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.164	3.00	15.0	ug/L	U	SW6010B
2K31906-CCB4	Calcium	28.1	1000	5000	ug/L	U	SW6010B
	Lead	0.454	1.50	3.00	ug/L	U	SW6010B
	Magnesium	9.53	1000	5000	ug/L	U	SW6010B
	Potassium	30.4	1000	5000	ug/L	U	SW6010B
	Sodium	57.7	1000	5000	ug/L	U	SW6010B
2K09013-BLK1	Calcium	24.5	1000	5000	ug/L	U	SW6010B
	Lead	-0.300	1.50	3.00	ug/L	U	SW6010B
	Magnesium	9.50	1000	5000	ug/L	U	SW6010B
	Potassium	8.43	1000	5000	ug/L	U	SW6010B
	Sodium	23.4	1000	5000	ug/L	U	SW6010B
2K31906-CCB5	Calcium	17.8	1000	5000	ug/L	U	SW6010B
	Lead	0.120	1.50	3.00	ug/L	U	SW6010B
	Magnesium	17.6	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2K31906
Calibration: 2319005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31906-CCB5	Potassium	8.54	1000	5000	ug/L	U	SW6010B
	Sodium	5.82	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2K32110
Calibration: 2321003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K32110-ICB1	Calcium	1.990	1000	5000	ug/L	U	SW6010B
	Lead	-0.02662	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.380	1000	5000	ug/L	U	SW6010B
	Potassium	13.85	1000	5000	ug/L	U	SW6010B
	Sodium	5.980	1000	5000	ug/L	U	SW6010B
2K32110-CCB1	Calcium	6.58	1000	5000	ug/L	U	SW6010B
	Lead	0.320	1.50	3.00	ug/L	U	SW6010B
	Magnesium	9.19	1000	5000	ug/L	U	SW6010B
	Potassium	24.6	1000	5000	ug/L	U	SW6010B
	Sodium	7.14	1000	5000	ug/L	U	SW6010B
2K32110-CCB2	Calcium	8.80	1000	5000	ug/L	U	SW6010B
	Lead	0.361	1.50	3.00	ug/L	U	SW6010B
	Magnesium	3.88	1000	5000	ug/L	U	SW6010B
	Potassium	31.5	1000	5000	ug/L	U	SW6010B
	Sodium	74.4	1000	5000	ug/L	U	SW6010B
2K14014-BLK1	Calcium	14.2	1000	5000	ug/L	U	SW6010B
	Lead	-0.345	1.50	3.00	ug/L	U	SW6010B
	Magnesium	2.33	1000	5000	ug/L	U	SW6010B
	Potassium	15.6	1000	5000	ug/L	U	SW6010B
	Sodium	67.6	1000	5000	ug/L	U	SW6010B
2K32110-CCB3	Calcium	15.5	1000	5000	ug/L	U	SW6010B
	Lead	0.248	1.50	3.00	ug/L	U	SW6010B
	Magnesium	4.62	1000	5000	ug/L	U	SW6010B
	Potassium	24.6	1000	5000	ug/L	U	SW6010B
	Sodium	19.8	1000	5000	ug/L	U	SW6010B
2K32110-CCB4	Calcium	28.7	1000	5000	ug/L	U	SW6010B
	Lead	-0.130	1.50	3.00	ug/L	U	SW6010B
	Magnesium	14.4	1000	5000	ug/L	U	SW6010B
	Potassium	35.3	1000	5000	ug/L	U	SW6010B
	Sodium	68.8	1000	5000	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2310002

Sequence: 2K31003

Lab Sample ID	Analyte	True	Found	%R	Units
2K31003-IFA1	Iron (dissolved)	200000	203,540.00	102	ug/L
	Manganese (dissolved)		-4.61		ug/L
2K31003-IFB1	Iron (dissolved)	200000	202,530.00	101	ug/L
	Manganese (dissolved)	500.0	487.22	97.4	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2318001
Sequence: 2K31801

Lab Sample ID	Analyte	True	Found	%R	Units
2K31801-IFA1	Calcium	500000	464,580.00	92.9	ug/L
	Lead		0.58		ug/L
	Magnesium	500000	475,970.00	95.2	ug/L
	Potassium		-75.55		ug/L
	Sodium		28.21		ug/L
2K31801-IFB1	Calcium	500000	462,160.00	92.4	ug/L
	Lead	50.00	49.15	98.3	ug/L
	Magnesium	500000	473,000.00	94.6	ug/L
	Potassium		-86.79		ug/L
	Sodium		9.33		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2319005
Sequence: 2K31906

Lab Sample ID	Analyte	True	Found	%R	Units
2K31906-IFA1	Calcium	500000	450,800.00	90.2	ug/L
	Iron (dissolved)	200000	194,630.00	97.3	ug/L
	Lead		-1.18		ug/L
	Magnesium	500000	453,170.00	90.6	ug/L
	Manganese (dissolved)		-3.84		ug/L
	Potassium		-24.10		ug/L
	Sodium		17.06		ug/L
2K31906-IFB1	Calcium	500000	461,030.00	92.2	ug/L
	Iron (dissolved)	200000	194,450.00	97.2	ug/L
	Lead	50.00	43.36	86.7	ug/L
	Magnesium	500000	450,870.00	90.2	ug/L
	Manganese (dissolved)	500.0	465.12	93.0	ug/L
	Potassium		-22.26		ug/L
	Sodium		9.33		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2321003
Sequence: 2K32110

Lab Sample ID	Analyte	True	Found	%R	Units
2K32110-IFA1	Calcium	500000	493,240.00	98.6	ug/L
	Lead		-3.57		ug/L
	Magnesium	500000	486,810.00	97.4	ug/L
	Potassium		-57.09		ug/L
	Sodium		27.92		ug/L
2K32110-IFB1	Calcium	500000	499,880.00	100	ug/L
	Lead	50.00	42.84	85.7	ug/L
	Magnesium	500000	482,480.00	96.5	ug/L
	Potassium		-80.93		ug/L
	Sodium		35.85		ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K02003

% Solids:

Source Sample Name: **1210292-10**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	43.41	1103	106		80 - 120
Manganese (dissolved)	500.0	181.1	662.2	96.2		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	1086	104	1.55		20	80 - 120
Manganese (dissolved)	500.0	673.4	98.5	1.68		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K09013

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	49520	54650	103		80 - 120
Lead	250.0	ND	232.8	93.1		80 - 120
Magnesium	5000	6683	11580	98.0		80 - 120
Potassium	5000	2447	7167	94.4		80 - 120
Sodium	5000	23730	28570	96.7		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	54410	97.8	0.447		20	80 - 120
Lead	250.0	232.3	92.9	0.176		20	80 - 120
Magnesium	5000	11490	96.1	0.841		20	80 - 120
Potassium	5000	7109	93.2	0.822		20	80 - 120
Sodium	5000	28470	94.8	0.344		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K13008

% Solids:

Source Sample Name: **1211036-16**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	ND	1003	100		80 - 120
Manganese (dissolved)	500.0	ND	483.5	96.7		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	986.8	98.7	1.62		20	80 - 120
Manganese (dissolved)	500.0	473.8	94.8	2.02		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K13008

% Solids:

Source Sample Name: **1211036-20**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	ND	999.5	99.9		80 - 120
Manganese (dissolved)	500.0	ND	475.0	95.0		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	993.3	99.3	0.619		20	80 - 120
Manganese (dissolved)	500.0	473.9	94.8	0.249		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K14014

% Solids:

Source Sample Name: **1211036-15**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	44680	49810	103		80 - 120
Lead	250.0	ND	241.4	96.6		80 - 120
Magnesium	5000	6205	11170	99.3		80 - 120
Potassium	5000	2327	7191	97.3		80 - 120
Sodium	5000	24290	29290	100		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	51980	146	4.26	4x	20	80 - 120
Lead	250.0	244.1	97.6	1.11		20	80 - 120
Magnesium	5000	11610	108	3.85		20	80 - 120
Potassium	5000	7409	102	2.98		20	80 - 120
Sodium	5000	30530	125	4.15	4x	20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K14014

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	33980	38800	96.5		80 - 120
Lead	250.0	ND	236.9	94.8		80 - 120
Magnesium	5000	4738	9672	98.7		80 - 120
Potassium	5000	1956	6740	95.7		80 - 120
Sodium	5000	20870	25680	96.2		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	39350	107	1.40		20	80 - 120
Lead	250.0	238.3	95.3	0.577		20	80 - 120
Magnesium	5000	9969	105	3.02		20	80 - 120
Potassium	5000	7003	101	3.83		20	80 - 120
Sodium	5000	26140	105	1.75		20	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0849

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 2K09013-PS1
Batch: 2K09013
Lab Source ID: 1210292-09
Preparation: MET_3005A
Initial/Final: 20 mL / 20 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Calcium	53730	49520	5000	84.2	80 - 120
Lead	240.2	ND	250.0	96.3	80 - 120
Magnesium	11590	6683	5000	98.2	80 - 120
Potassium	7245	2447	5000	95.9	80 - 120
Sodium	28200	23730	5000	89.5	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0813

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 2K14014-PS1
Batch: 2K14014
Lab Source ID: 1211036-15
Preparation: MET_3005A
Initial/Final: 20 mL / 20 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Calcium	49230	44680	5000	91.0	80 - 120
Lead	243.4	ND	250.0	97.5	80 - 120
Magnesium	11090	6205	5000	97.7	80 - 120
Potassium	7159	2327	5000	96.6	80 - 120
Sodium	28990	24290	5000	94.0	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0832

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 2K14014-PS2
Batch: 2K14014
Lab Source ID: 1211036-19
Preparation: MET_3005A
Initial/Final: 20 mL / 20 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Calcium	38500	33980	5000	90.4	80 - 120
Lead	240.1	ND	250.0	96.3	80 - 120
Magnesium	9594	4738	5000	97.1	80 - 120
Potassium	6736	1956	5000	95.6	80 - 120
Sodium	25480	20870	5000	92.1	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K02003	Laboratory ID:	2K02003-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Iron (dissolved)	1000	1116	112	80 - 120
Manganese (dissolved)	500.0	557.8	112	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K09013	Laboratory ID:	2K09013-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Calcium	5000	4870	97.4	80 - 120
Lead	250.0	242.1	96.8	80 - 120
Magnesium	5000	4806	96.1	80 - 120
Potassium	5000	4746	94.9	80 - 120
Sodium	5000	4939	98.8	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K13008	Laboratory ID:	2K13008-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Iron (dissolved)	1000	1030	103	80 - 120
Manganese (dissolved)	500.0	495.4	99.1	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K14014	Laboratory ID:	2K14014-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Calcium	5000	5425	109	80 - 120
Lead	250.0	247.1	98.8	80 - 120
Magnesium	5000	5112	102	80 - 120
Potassium	5000	4992	99.8	80 - 120
Sodium	5000	5251	105	80 - 120

SERIAL DILUTION

SW6010B

GW0849

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 2K31003
Preparation: MET_3005A

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K02003-DUP1
Lab Source ID: 1210292-10
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Iron (dissolved)	43.412	ND			SW6010B	10.00
Manganese (dissolved)	181.09	186.97	3.25		SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0849

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 2K31801
Preparation: MET_3005A

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K09013-DUP1
Lab Source ID: 1210292-09
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	49518	50995	2.98		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	6683	6957	4.1		SW6010B	10.00
Potassium	2447.3	ND			SW6010B	10.00
Sodium	23730	24449	3.03		SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0813

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 2K31906
Preparation: MET_3005A

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K13008-DUP1
Lab Source ID: 1211036-16
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Iron (dissolved)	ND	ND			SW6010B	10.00
Manganese (dissolved)	ND	ND			SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0832

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 2K31906
Preparation: MET_3005A

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K13008-DUP2
Lab Source ID: 1211036-20
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Iron (dissolved)	ND	ND			SW6010B	10.00
Manganese (dissolved)	ND	ND			SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0813

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 2K32110
Preparation: MET_3005A

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14014-DUP1
Lab Source ID: 1211036-15
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	44678	45440	1.71		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	6205.4	6446	3.88		SW6010B	10.00
Potassium	2327.4	ND			SW6010B	10.00
Sodium	24287	24674	1.6		SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0832

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 2K32110
Preparation: MET_3005A

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14014-DUP2
Lab Source ID: 1211036-19
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	33978	35129	3.39		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	4737.5	ND			SW6010B	10.00
Potassium	1956.1	ND			SW6010B	10.00
Sodium	20872	21556	3.28		SW6010B	10.00

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_069

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.000274	0.002914	0.000021	0.000325	0.0000000
Lead	220.3	0.000274	0.002914	0.000021	0.000325	0.0000000
Magnesium	279.0	0.0000000	0.0000000	-0.000001	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	-0.000001	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.000032	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.000032	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_069

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_069

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	-0.000701	0.0000000	0.0000000	-0.000794
Iron	261.1	0.0000000	-0.000701	0.0000000	0.0000000	-0.000794
Lead	220.3	-0.000077	0.0000000	0.000101	0.0000000	0.000116
Lead	220.3	-0.000077	0.0000000	0.000101	0.0000000	0.000116
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_069

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.002028	0.0000000	0.000100	0.0000000	0.0000000
Lead	220.3	-0.002028	0.0000000	0.000100	0.0000000	0.0000000
Magnesium	279.0	-0.000013	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	-0.000013	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_069

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	-0.000006	0.0000000	-0.000072
Lead	220.3	0.0000000	0.0000000	-0.000006	0.0000000	-0.000072
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: Kirtland_069

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 12/30/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Sodium	589.6	0.0000000				
Sodium	589.6	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: Kirtland_069

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 12/30/2011

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Calcium	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Lead	15	10000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Manganese	15	10000	P
Potassium	15	100000	P
Potassium	15	100000	P
Sodium	15	500000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K02003 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0786	1210292-02	11/02/12 08:47	50.00	50.00
GW0787	1210292-04	11/02/12 08:47	50.00	50.00
GW0788	1210292-06	11/02/12 08:47	50.00	50.00
GW0848	1210292-08	11/02/12 08:47	50.00	50.00
GW0849	1210292-10	11/02/12 08:47	50.00	50.00
GW0850	1210292-12	11/02/12 08:47	50.00	50.00
Blank	2K02003-BLK1	11/02/12 08:47	50.00	50.00
LCS	2K02003-BS1	11/02/12 08:47	50.00	50.00
GW0849	2K02003-DUP1	11/02/12 08:47	50.00	50.00
GW0849	2K02003-MS1	11/02/12 08:47	50.00	50.00
GW0849	2K02003-MSD1	11/02/12 08:47	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K09013 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0786	1210292-01	11/09/12 09:16	50.00	50.00
GW0787	1210292-03	11/09/12 09:16	50.00	50.00
GW0788	1210292-05	11/09/12 09:16	50.00	50.00
GW0848	1210292-07	11/09/12 09:16	50.00	50.00
GW0849	1210292-09	11/09/12 09:16	50.00	50.00
GW0850	1210292-11	11/09/12 09:16	50.00	50.00
GW0755	1211036-01	11/09/12 09:16	50.00	50.00
GW0762	1211036-03	11/09/12 09:16	50.00	50.00
GW0763	1211036-05	11/09/12 09:16	50.00	50.00
GW0802	1211036-07	11/09/12 09:16	50.00	50.00
GW0803	1211036-09	11/09/12 09:16	50.00	50.00
GW0804	1211036-11	11/09/12 09:16	50.00	50.00
GW0812	1211036-13	11/09/12 09:16	50.00	50.00
Blank	2K09013-BLK1	11/09/12 09:16	50.00	50.00
LCS	2K09013-BS1	11/09/12 09:16	50.00	50.00
GW0849	2K09013-DUP1	11/09/12 09:16	50.00	50.00
GW0849	2K09013-MS1	11/09/12 09:16	50.00	50.00
GW0849	2K09013-MSD1	11/09/12 09:16	50.00	50.00
GW0849	2K09013-PS1	11/09/12 09:16	20.00	20.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K13008 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0755	1211036-02	11/13/12 08:29	50.00	50.00
GW0762	1211036-04	11/13/12 08:29	50.00	50.00
GW0763	1211036-06	11/13/12 08:29	50.00	50.00
GW0802	1211036-08	11/13/12 08:29	50.00	50.00
GW0803	1211036-10	11/13/12 08:29	50.00	50.00
GW0804	1211036-12	11/13/12 08:29	50.00	50.00
GW0812	1211036-14	11/13/12 08:29	50.00	50.00
GW0813	1211036-16	11/13/12 08:29	50.00	50.00
GW0814	1211036-18	11/13/12 08:29	50.00	50.00
GW0832	1211036-20	11/13/12 08:29	50.00	50.00
GW0833	1211036-22	11/13/12 08:29	50.00	50.00
Blank	2K13008-BLK1	11/13/12 08:29	50.00	50.00
LCS	2K13008-BS1	11/13/12 08:29	50.00	50.00
GW0813	2K13008-DUP1	11/13/12 08:29	50.00	50.00
GW0832	2K13008-DUP2	11/13/12 08:29	50.00	50.00
GW0813	2K13008-MS1	11/13/12 08:29	50.00	50.00
GW0832	2K13008-MS2	11/13/12 08:29	50.00	50.00
GW0813	2K13008-MSD1	11/13/12 08:29	50.00	50.00
GW0832	2K13008-MSD2	11/13/12 08:29	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K14014 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0813	1211036-15	11/14/12 08:55	50.00	50.00
GW0814	1211036-17	11/14/12 08:55	50.00	50.00
GW0832	1211036-19	11/14/12 08:55	50.00	50.00
GW0833	1211036-21	11/14/12 08:55	50.00	50.00
Blank	2K14014-BLK1	11/14/12 08:55	50.00	50.00
LCS	2K14014-BS1	11/14/12 08:55	50.00	50.00
GW0813	2K14014-DUP1	11/14/12 08:55	50.00	50.00
GW0832	2K14014-DUP2	11/14/12 08:55	50.00	50.00
GW0813	2K14014-MS1	11/14/12 08:55	50.00	50.00
GW0832	2K14014-MS2	11/14/12 08:55	50.00	50.00
GW0813	2K14014-MSD1	11/14/12 08:55	50.00	50.00
GW0832	2K14014-MSD2	11/14/12 08:55	50.00	50.00
GW0813	2K14014-PS1	11/14/12 08:55	20.00	20.00
GW0832	2K14014-PS2	11/14/12 08:55	20.00	20.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31003	Instrument:	ME-ICP
Calibration:	2310002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K31003-CAL1	110212A-001	11/02/12 09:11
Cal Standard	2K31003-CAL2	110212A-002	11/02/12 09:15
Cal Standard	2K31003-CAL3	110212A-003	11/02/12 09:20
Cal Standard	2K31003-CAL4	110212A-004	11/02/12 09:24
Cal Standard	2K31003-CAL5	110212A-005	11/02/12 09:29
Cal Standard	2K31003-CAL6	110212A-006	11/02/12 09:34
Initial Cal Check	2K31003-ICV1	110212B-001	11/02/12 10:15
Initial Cal Blank	2K31003-ICB1	110212B-002	11/02/12 10:22
Instrument RL Check	2K31003-CRL1	110212B-003	11/02/12 10:27
Interference Check A	2K31003-IFA1	110212B-005	11/02/12 10:38
Interference Check B	2K31003-IFB1	110212B-006	11/02/12 10:42
Calibration Check	2K31003-CCV1	110212B-008	11/02/12 10:52
Calibration Blank	2K31003-CCB1	110212B-009	11/02/12 11:00
Calibration Check	2K31003-CCV3	110212B-034	11/02/12 13:05
Calibration Blank	2K31003-CCB3	110212B-035	11/02/12 13:12
Blank	2K02003-BLK1	110212B-036	11/02/12 13:16
LCS	2K02003-BS1	110212B-037	11/02/12 13:21
GW0786	1210292-02	110212B-043	11/02/12 13:50
GW0787	1210292-04	110212B-044	11/02/12 13:54
GW0788	1210292-06	110212B-045	11/02/12 13:59
GW0848	1210292-08	110212B-046	11/02/12 14:03
GW0849	1210292-10	110212B-047	11/02/12 14:08
GW0849	2K02003-MS1	110212B-048	11/02/12 14:12
GW0849	2K02003-MSD1	110212B-049	11/02/12 14:17
GW0849	2K02003-DUP1	110212B-050	11/02/12 14:22
GW0850	1210292-12	110212B-051	11/02/12 14:26
Calibration Check	2K31003-CCV4	110212B-052	11/02/12 14:32
Calibration Blank	2K31003-CCB4	110212B-053	11/02/12 14:39

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31801	Instrument:	ME-ICP
Calibration:	2318001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K31801-CAL1	111212A-001	11/12/12 09:11
Cal Standard	2K31801-CAL2	111212A-002	11/12/12 09:16
Cal Standard	2K31801-CAL3	111212A-003	11/12/12 09:20
Cal Standard	2K31801-CAL5	111212A-005	11/12/12 09:30
Cal Standard	2K31801-CAL6	111212A-006	11/12/12 09:34
Cal Standard	2K31801-CAL7	111212A-007	11/12/12 09:40
Cal Standard	2K31801-CAL8	111212A-008	11/12/12 09:45
Initial Cal Check	2K31801-ICV1	111212B-001	11/12/12 10:17
Initial Cal Blank	2K31801-ICB1	111212B-002	11/12/12 10:25
Instrument RL Check	2K31801-CRL1	111212B-003	11/12/12 10:29
Interference Check A	2K31801-IFA1	111212B-011	11/12/12 11:15
Interference Check B	2K31801-IFB1	111212B-012	11/12/12 11:20
Calibration Check	2K31801-CCV1	111212B-014	11/12/12 11:30
Calibration Blank	2K31801-CCB1	111212B-015	11/12/12 11:37
Calibration Check	2K31801-CCV8	111212C-059	11/12/12 19:53
Calibration Blank	2K31801-CCB8	111212C-060	11/12/12 20:00
GW0848	1210292-07	111212C-061	11/12/12 20:05
GW0849	1210292-09	111212C-062	11/12/12 20:09
GW0849	2K09013-MS1	111212C-063	11/12/12 20:14
GW0849	2K09013-MSD1	111212C-064	11/12/12 20:18
GW0849	2K09013-PS1	111212C-065	11/12/12 20:22
GW0849	2K09013-DUP1	111212C-066	11/12/12 20:28
GW0850	1210292-11	111212C-067	11/12/12 20:32
GW0755	1211036-01	111212C-068	11/12/12 20:37
GW0762	1211036-03	111212C-069	11/12/12 20:41
GW0763	1211036-05	111212C-070	11/12/12 20:46
GW0802	1211036-07	111212C-071	11/12/12 20:50
GW0803	1211036-09	111212C-072	11/12/12 20:55
GW0804	1211036-11	111212C-073	11/12/12 20:59
GW0812	1211036-13	111212C-074	11/12/12 21:04
Calibration Check	2K31801-CCV9	111212C-075	11/12/12 21:09
Calibration Blank	2K31801-CCB9	111212C-076	11/12/12 21:16

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31906	Instrument:	ME-ICP
Calibration:	2319005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K31906-CAL1	111312A-001	11/13/12 09:19
Cal Standard	2K31906-CAL1	111312A-001	11/13/12 09:19
Cal Standard	2K31906-CAL2	111312A-002	11/13/12 09:23
Cal Standard	2K31906-CAL2	111312A-002	11/13/12 09:23
Cal Standard	2K31906-CAL3	111312A-003	11/13/12 09:27
Cal Standard	2K31906-CAL3	111312A-003	11/13/12 09:27
Cal Standard	2K31906-CAL4	111312A-004	11/13/12 09:32
Cal Standard	2K31906-CAL5	111312A-005	11/13/12 09:37
Cal Standard	2K31906-CAL5	111312A-005	11/13/12 09:37
Cal Standard	2K31906-CAL6	111312A-006	11/13/12 09:42
Cal Standard	2K31906-CAL6	111312A-006	11/13/12 09:42
Cal Standard	2K31906-CAL7	111312A-007	11/13/12 09:47
Cal Standard	2K31906-CAL8	111312A-008	11/13/12 09:52
Initial Cal Check	2K31906-ICV1	111312B-001	11/13/12 10:23
Initial Cal Check	2K31906-ICV1	111312B-001	11/13/12 10:23
Initial Cal Blank	2K31906-ICB1	111312B-002	11/13/12 10:31
Initial Cal Blank	2K31906-ICB1	111312B-002	11/13/12 10:31
Instrument RL Check	2K31906-CRL1	111312B-003	11/13/12 10:36
Instrument RL Check	2K31906-CRL1	111312B-003	11/13/12 10:36
Interference Check A	2K31906-IFA1	111312B-006	11/13/12 10:54
Interference Check A	2K31906-IFA1	111312B-006	11/13/12 10:54
Interference Check B	2K31906-IFB1	111312B-007	11/13/12 12:14
Interference Check B	2K31906-IFB1	111312B-007	11/13/12 12:14
Calibration Check	2K31906-CCV1	111312B-009	11/13/12 12:26
Calibration Check	2K31906-CCV1	111312B-009	11/13/12 12:26
Calibration Blank	2K31906-CCB1	111312B-010	11/13/12 12:33
Calibration Blank	2K31906-CCB1	111312B-010	11/13/12 12:33
Blank	2K13008-BLK1	111312B-011	11/13/12 12:37
LCS	2K13008-BS1	111312B-012	11/13/12 12:42
GW0755	1211036-02	111312B-019	11/13/12 13:15
GW0762	1211036-04	111312B-020	11/13/12 13:20
GW0763	1211036-06	111312B-021	11/13/12 13:24

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31906	Instrument:	ME-ICP
Calibration:	2319005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0813	1211036-16	111312B-022	11/13/12 13:29
GW0813	2K13008-MS1	111312B-023	11/13/12 13:33
GW0813	2K13008-MSD1	111312B-024	11/13/12 13:37
GW0813	2K13008-DUP1	111312B-025	11/13/12 13:43
Calibration Check	2K31906-CCV2	111312B-026	11/13/12 13:48
Calibration Blank	2K31906-CCB2	111312B-027	11/13/12 13:56
GW0802	1211036-08	111312B-028	11/13/12 14:00
GW0803	1211036-10	111312B-029	11/13/12 14:05
GW0804	1211036-12	111312B-030	11/13/12 14:09
GW0812	1211036-14	111312B-031	11/13/12 14:13
GW0814	1211036-18	111312B-032	11/13/12 14:18
GW0832	1211036-20	111312B-033	11/13/12 14:23
GW0832	2K13008-MS2	111312B-034	11/13/12 14:27
GW0832	2K13008-MSD2	111312B-035	11/13/12 14:31
GW0832	2K13008-DUP2	111312B-036	11/13/12 14:37
GW0833	1211036-22	111312B-037	11/13/12 14:41
Calibration Check	2K31906-CCV3	111312B-038	11/13/12 14:47
Calibration Blank	2K31906-CCB3	111312B-039	11/13/12 14:54
Calibration Check	2K31906-CCV4	111312C-011	11/13/12 15:49
Calibration Blank	2K31906-CCB4	111312C-012	11/13/12 15:56
Blank	2K09013-BLK1	111312C-013	11/13/12 16:01
LCS	2K09013-BS1	111312C-014	11/13/12 16:05
GW0786	1210292-01	111312C-022	11/13/12 16:43
GW0787	1210292-03	111312C-023	11/13/12 16:47
GW0788	1210292-05	111312C-024	11/13/12 16:52
Calibration Check	2K31906-CCV5	111312C-025	11/13/12 16:57
Calibration Blank	2K31906-CCB5	111312C-026	11/13/12 17:04

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32110	Instrument:	ME-ICP
Calibration:	2321003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K32110-CAL1	11-15-12A-001	11/15/12 09:27
Cal Standard	2K32110-CAL2	11-15-12A-002	11/15/12 09:32
Cal Standard	2K32110-CAL3	11-15-12A-003	11/15/12 09:37
Cal Standard	2K32110-CAL5	11-15-12A-005	11/15/12 09:46
Cal Standard	2K32110-CAL6	11-15-12A-006	11/15/12 09:51
Cal Standard	2K32110-CAL7	11-15-12A-007	11/15/12 09:56
Cal Standard	2K32110-CAL8	11-15-12A-008	11/15/12 10:01
Initial Cal Check	2K32110-ICV1	11-15-12B-001	11/15/12 10:30
Initial Cal Blank	2K32110-ICB1	11-15-12B-002	11/15/12 10:38
Instrument RL Check	2K32110-CRL1	11-15-12B-003	11/15/12 10:42
Interference Check A	2K32110-IFA1	11-15-12B-007	11/15/12 11:01
Interference Check B	2K32110-IFB1	11-15-12B-008	11/15/12 11:07
Calibration Check	2K32110-CCV1	11-15-12B-010	11/15/12 11:19
Calibration Blank	2K32110-CCB1	11-15-12B-011	11/15/12 11:27
Calibration Check	2K32110-CCV2	11-15-12B-022	11/15/12 12:21
Calibration Blank	2K32110-CCB2	11-15-12B-023	11/15/12 12:28
Blank	2K14014-BLK1	11-15-12B-024	11/15/12 12:32
LCS	2K14014-BS1	11-15-12B-025	11/15/12 12:37
GW0813	1211036-15	11-15-12B-032	11/15/12 13:10
GW0813	2K14014-MS1	11-15-12B-033	11/15/12 13:14
GW0813	2K14014-MSD1	11-15-12B-034	11/15/12 13:19
GW0813	2K14014-PS1	11-15-12B-035	11/15/12 13:23
GW0813	2K14014-DUP1	11-15-12B-036	11/15/12 13:28
GW0814	1211036-17	11-15-12B-037	11/15/12 13:33
GW0833	1211036-21	11-15-12B-038	11/15/12 13:37
Calibration Check	2K32110-CCV3	11-15-12B-040	11/15/12 13:50
Calibration Blank	2K32110-CCB3	11-15-12B-041	11/15/12 13:57
GW0832	1211036-19	11-15-12B-042	11/15/12 14:02
GW0832	2K14014-MS2	11-15-12B-043	11/15/12 14:06
GW0832	2K14014-MSD2	11-15-12B-044	11/15/12 14:11
GW0832	2K14014-PS2	11-15-12B-045	11/15/12 14:15
GW0832	2K14014-DUP2	11-15-12B-046	11/15/12 14:20

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32110	Instrument:	ME-ICP
Calibration:	2321003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32110-CCV4	11-15-12B-056	11/15/12 15:06
Calibration Blank	2K32110-CCB4	11-15-12B-057	11/15/12 15:14

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2310002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/2/12 9:11 11/2/12 9:44

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.714E-05	10000	2.7236E-05			500000	2.6734E-05		
Antimony	0	0	100	0.0004179	1000	0.0004706					10000	0.0004609
Arsenic	0	0	100	0.0002065	1000	2.3411E-04					10000	2.2698E-04
Barium	0	0	50	0.0073586	1000	0.0071518	5000	0.007233				
Beryllium	0	0	100	0.0022931	1000	0.0023617					10000	0.0022737
Boron	0	0	50	0.0000158	1000	1.652E-05					5000	1.6056E-05
Cadmium	0	0	100	0.015846	1000	0.016179					10000	0.015329
Calcium	0	0	1100	5.823636E-05	50000	5.8926E-05					10000	
Chromium	0	0	100	0.0000507	1000	4.931E-05					10000	4.8619E-05
Cobalt	0	0	100	0.0045854	1000	0.0045456					10000	0.0045533
Copper	0	0	100	0.0000539	1000	5.198E-05					10000	4.9431E-05
Iron	0	0	5100	2.255882E-05	10000	2.2242E-05			500000	2.1178E-05	10000	
Lead	0	0	100	0.001177	1000	0.0011503					10000	0.0011719
Magnesium	0	0	5100		50000	2.1624E-06			500000	2.1874E-06	10000	
Manganese	0	0	100	0.0002818	1000	2.8614E-04	10000	2.7188E-04			10000	
Molybdenum	0	0	100	0.0033802	1000	0.0035243					10000	0.0034353
Nickel	0	0	100	0.0023769	1000	0.0023535					10000	0.0023418
Potassium	0	0	1000	1.577E-05	10000	1.7566E-05						
Selenium	0	0	100	0.0003415	1000	3.5252E-04					10000	3.3578E-04
Silver	0	0	20	0.0000735	500	6.954E-05	2000	~~0.0000461~~				
Sodium	0	0	1000		50000	4.6748E-05						
Strontium	0	0	100	0.001783	1000	0.001824					10000	0.001783
Thallium	0	0	100	0.0006693	1000	6.6762E-04					10000	6.7283E-04
Tin	0	0	50	0.0011774	1000	0.0012279					5000	1.21526E-03
Titanium	0	0	100	0.0001952	1000	0.0002017					10000	2.0251E-04
Vanadium	0	0	100	0.0000464	1000	4.724E-05					10000	4.6149E-05
Zinc	0	0	100	0.0064929	1000	0.0066199					10000	0.0064811

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2310002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/2/12 9:11 11/2/12 9:44

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	5.591E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.0874E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.7638E-05										
Selenium												
Silver												
Sodium	100000	4.3574E-05	500000	4.421E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2310002		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	11/2/12 9:11	11/2/12 9:44

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	2.02775E-05	66.6753	3.43118	169.2201	0.9999999		0.998	
Antimony	3.3735E-04	67.01142	0.6101525	82.25137	0.9999912		0.998	
Arsenic	1.668975E-04	67.0344	5.189835	168.3289	0.9999849		0.998	
Barium	5.43585E-03	66.68503	2.632275	176.9712	0.9999939		0.998	
Beryllium	1.732125E-03	66.70229	124.2593	199.3738	0.9999852		0.998	
Boron	1.2094E-05	66.71218	2.140972	125.8478	0.9999654		0.998	
Cadmium	0.0118385	66.73208	2.173867	162.4396	0.9999707		0.998	
Calcium	4.326809E-05	66.73333	1.868893	142.1384	0.9999714		0.998	
Chromium	3.715725E-05	66.70734	5.336313	166.8546	0.9999985		0.998	
Cobalt	3.421075E-03	66.66857	1.560408	156.5659	0.9999999		0.998	
Copper	3.882775E-05	66.83314	1.09292	29.69898	0.9999806		0.998	
Iron	1.649471E-05	66.76273	44.98682	198.7746	0.9999993		0.998	
Lead	0.0008748	66.67979	13.26045	194.0436	0.9999964		0.998	
Magnesium	1.6093E-06	66.71893	65.30371	198.8314	0.9999123		0.998	
Manganese	2.09955E-04	66.72724	4.07208	162.6217	0.999974		0.998	
Molybdenum	2.58495E-03	66.70622	8.843497	192.1095	0.9999928		0.998	
Nickel	1.76805E-03	66.67177	208.0994	199.5523	0.9999998		0.998	
Potassium	1.27435E-05	67.01063	4.199107	174.388	0.9999997		0.998	
Selenium	2.5745E-04	66.72126	13.9735	192.0963	0.9999765		0.998	
Silver	4.768E-05	86.70204	5.06437	120.6512	1		0.998	
Sodium	3.3633E-05	66.7912	2.328358	114.1587	0.9999399		0.998	
Strontium	0.0013475	66.68209	2.978125	153.3843	0.9999945		0.998	
Thallium	5.024375E-04	66.66807	5.032245	191.0517	0.9999996		0.998	
Tin	9.0514E-04	66.7088	0.764795	117.4854	0.9999942		0.998	
Titanium	1.498525E-04	66.70241	8.307518	191.0357	0.9999998		0.998	
Vanadium	3.494725E-05	66.68003	10.7607	185.9742	0.9999947		0.998	
Zinc	4.898475E-03	66.67901	9.87164	193.1425	0.9999954		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2318001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/12/12 9:11 11/12/12 9:45

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.7316E-05	10000	2.6943E-05			500000	2.6742E-05		
Antimony	0	0	100	0.0006425	1000	7.0143E-04					10000	6.8127E-04
Arsenic	0	0	100	0.0003613	1000	0.0003942					10000	3.7832E-04
Barium	0	0	50	0.0119752	1000	0.011774	5000	0.0120012				
Beryllium	0	0	100	0.0024835	1000	0.0025101					10000	0.0023814
Boron	0	0	50	0.000018	1000	1.896E-05					5000	1.8674E-05
Cadmium	0	0	100	0.018943	1000	0.019202					10000	0.018135
Calcium	0	0	1100	7.294545E-05	50000	6.9066E-05					10000	
Chromium	0	0	100	0.0000528	1000	5.165E-05					10000	5.0323E-05
Cobalt	0	0	100	0.0053877	1000	0.0053247					10000	0.0053647
Copper	0	0	100	0.0000894	1000	8.134E-05					10000	8.1543E-05
Iron	0	0	5100	2.28549E-05	10000	2.1973E-05			500000	2.1108E-05	10000	
Lead	0	0	100	0.0013904	1000	0.0013408					10000	0.0013718
Magnesium	0	0	5100		50000	2.2644E-06			500000	2.298E-06	10000	
Manganese	0	0	100	0.0003177	1000	3.0168E-04	10000	2.9859E-04			10000	
Molybdenum	0	0	100	0.0040149	1000	0.0042176					10000	0.0040924
Nickel	0	0	100	0.0034402	1000	0.0034472					10000	0.0034176
Potassium	0	0	1000	1.455E-05	10000	1.7134E-05						
Selenium	0	0	100	0.0003934	1000	4.1081E-04					10000	3.9192E-04
Silver	0	0	20	0.0000715	500	0.0000668	2000	6.9175E-05				
Sodium	0	0	1000		50000	6.1324E-05						
Strontium	0	0	100	0.001726	1000	0.001716					10000	0.00163
Thallium	0	0	100	0.0008566	1000	8.3594E-04					10000	0.0008417
Tin	0	0	50	0.0013732	1000	0.0014419					5000	1.42404E-03
Titanium	0	0	100	0.0002184	1000	2.1455E-04					10000	2.1885E-04
Vanadium	0	0	100	0.0000415	1000	4.111E-05					10000	4.0086E-05
Zinc	0	0	100	0.0076555	1000	0.0078308					10000	0.0076437

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2318001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/12/12 9:11 11/12/12 9:45

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	6.7878E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.2062E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.7498E-05										
Selenium												
Silver												
Sodium	100000	6.0847E-05	500000	6.155E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2318001		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	11/12/12 9:11	11/12/12 9:45

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	2.025025E-05	66.67701	16.06961	194.3126	0.9999999		0.998	
Antimony	0.0005063	66.84141	1.458843	139.066	0.999988		0.998	
Arsenic	2.83455E-04	66.83492	7.101353	193.8454	0.9999796		0.998	
Barium	0.0089376	66.67635	1.016615	177.3765	0.999984		0.998	
Beryllium	1.84375E-03	66.73452	33.73788	197.2906	0.9999725		0.998	
Boron	1.39085E-05	66.72943	13.39763	183.5638	0.9999884		0.998	
Cadmium	0.01407	66.74485	1.44886	166.3398	0.9999676		0.998	
Calcium	5.247236E-05	66.79409	1.588155	169.554	0.9999972		0.998	
Chromium	3.869325E-05	66.71796	6.203255	183.9348	0.9999941		0.998	
Cobalt	4.019275E-03	66.66981	6.098522	192.6405	0.9999994		0.998	
Copper	6.307075E-05	66.93164	0.9171675	27.43794	0.999999		0.998	
Iron	1.648398E-05	66.80689	39.85557	196.1227	0.9999994		0.998	
Lead	1.02575E-03	66.6965	2.170222	166.7045	0.9999942		0.998	
Magnesium	1.69215E-06	66.70433	73.75968	199.3506	0.9999353		0.998	
Manganese	2.294925E-04	66.76649	33.53807	194.331	0.9999992		0.998	
Molybdenum	3.081225E-03	66.72174	1.743657	177.9904	0.9999899		0.998	
Nickel	2.57625E-03	66.66847	206.4673	199.8001	0.9999993		0.998	
Potassium	1.22955E-05	67.51567	1.60661	132.9177	0.9999998		0.998	
Selenium	2.990325E-04	66.72835	40.52892	198.5931	0.999977		0.998	
Silver	5.186875E-05	66.76923	6.790808	176.4792	0.9999116		0.998	
Sodium	4.593025E-05	66.66972	10.89412	196.944	0.9999945		0.998	
Strontium	0.001268	66.75323	2.33095	149.6295	0.9999739		0.998	
Thallium	6.3356E-04	66.68082	9.15055	193.396	0.9999994		0.998	
Tin	1.059785E-03	66.7232	0.613475	158.66	0.9999917		0.998	
Titanium	1.6295E-04	66.67718	1.530232	170.1486	0.9999953		0.998	
Vanadium	3.0674E-05	66.695	13.29689	191.4883	0.9999943		0.998	
Zinc	0.0057825	66.68308	0.284465	65.81217	0.9999941		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2319005	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/13/12 9:19 11/13/12 9:52

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	3.2732E-05	10000	3.2822E-05			500000	3.2402E-05		
Antimony	0	0	100	0.000685	1000	7.2604E-04					10000	7.1941E-04
Arsenic	0	0	100	0.0003605	1000	3.8697E-04					10000	3.7663E-04
Barium	0	0	50	0.0123498	1000	0.012072	5000	0.0123372				
Beryllium	0	0	100	0.0025288	1000	0.002527					10000	0.0023762
Boron	0	0	50	0.0000202	1000	2.014E-05					5000	1.9678E-05
Cadmium	0	0	100	0.018598	1000	0.018993					10000	0.018077
Calcium	0	0	1100	7.878181E-05	50000	7.6048E-05					10000	
Chromium	0	0	100	0.0000537	1000	5.282E-05					10000	5.2022E-05
Cobalt	0	0	100	0.0050057	1000	0.0049823					10000	0.004991
Copper	0	0	100	0.0001127	1000	1.0588E-04					10000	1.0511E-04
Iron	0	0	5100	2.956078E-05	10000	2.8488E-05			500000	2.708E-05	10000	
Lead	0	0	100	0.0012933	1000	0.0012517					10000	0.0012743
Magnesium	0	0	5100		50000	3.3036E-06			500000	3.3436E-06	10000	
Manganese	0	0	100	0.0003327	1000	3.2827E-04	10000	0.0003159			10000	
Molybdenum	0	0	100	0.0038466	1000	0.0040176					10000	0.0039257
Nickel	0	0	100	0.0036431	1000	0.0036531					10000	0.0036927
Potassium	0	0	1000	2.005E-05	10000	2.2272E-05						
Selenium	0	0	100	0.0003605	1000	3.7559E-04					10000	3.5781E-04
Silver	0	0	20	0.000092	500	0.0000908	2000	9.3615E-05				
Sodium	0	0	1000		50000	8.3178E-05						
Strontium	0	0	100	0.001998	1000	0.001986					10000	0.001887
Thallium	0	0	100	0.0008627	1000	8.4501E-04					10000	8.6062E-04
Tin	0	0	50	0.0012956	1000	0.0013641					5000	1.35326E-03
Titanium	0	0	100	0.0002298	1000	2.2805E-04					10000	2.2506E-04
Vanadium	0	0	100	0.0000514	1000	5.177E-05					10000	5.0547E-05
Zinc	0	0	100	0.0075666	1000	0.0077272					10000	0.007597
Aluminum	0	0	5000	3.2732E-05	10000	3.2822E-05			500000	3.2402E-05		
Antimony	0	0	100	0.000685	1000	7.2604E-04					10000	7.1941E-04
Arsenic	0	0	100	0.0003605	1000	3.8697E-04					10000	3.7663E-04
Barium	0	0	50	0.0123498	1000	0.012072	5000	0.0123372				

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2319005	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/13/12 9:19 11/13/12 9:52

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0025288	1000	0.002527					10000	0.0023762
Boron	0	0	50	0.0000202	1000	2.014E-05					5000	1.9678E-05
Cadmium	0	0	100	0.018598	1000	0.018993					10000	0.018077
Calcium	0	0	1100	7.878181E-05	50000	7.6048E-05					10000	
Chromium	0	0	100	0.0000537	1000	5.282E-05					10000	5.2022E-05
Cobalt	0	0	100	0.0050057	1000	0.0049823					10000	0.004991
Copper	0	0	100	0.0001127	1000	1.0588E-04					10000	1.0511E-04
Iron	0	0	5100	2.956078E-05	10000	2.8488E-05			500000	2.708E-05	10000	
Lead	0	0	100	0.0012933	1000	0.0012517					10000	0.0012743
Magnesium	0	0	5100		50000	3.3036E-06			500000	3.3436E-06	10000	
Manganese	0	0	100	0.0003327	1000	3.2827E-04	10000	0.0003159			10000	
Molybdenum	0	0	100	0.0038466	1000	0.0040176					10000	0.0039257
Nickel	0	0	100	0.0036431	1000	0.0036531					10000	0.0036927
Potassium	0	0	1000	2.005E-05	10000	2.2272E-05						
Selenium	0	0	100	0.0003605	1000	3.7559E-04					10000	3.5781E-04
Silver	0	0	20	0.000092	500	0.0000908	2000	9.3615E-05				
Sodium	0	0	1000		50000	8.3178E-05						
Strontium	0	0	100	0.001998	1000	0.001986					10000	0.001887
Thallium	0	0	100	0.0008627	1000	8.4501E-04					10000	8.6062E-04
Tin	0	0	50	0.0012956	1000	0.0013641					5000	1.35326E-03
Titanium	0	0	100	0.0002298	1000	2.2805E-04					10000	2.2506E-04
Vanadium	0	0	100	0.0000514	1000	5.177E-05					10000	5.0547E-05
Zinc	0	0	100	0.0075666	1000	0.0077272					10000	0.007597

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2319005	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/13/12 9:19 11/13/12 9:52

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	7.3868E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	3.2958E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	2.3089E-05										
Selenium												
Silver												
Sodium	100000	0.0000842	500000	8.168E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2319005	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/13/12 9:19 11/13/12 9:52

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	7.3868E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	3.2958E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	2.3089E-05										
Selenium												
Silver												
Sodium	100000	0.0000842	500000	8.168E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2319005		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	11/13/12 9:19	11/13/12 9:52

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	2.4489E-05	66.67075	4.95255	178.0777	0.9999999		0.998	
Antimony	5.326125E-04	66.75216	1.8996	165.3938	0.9999984		0.998	
Arsenic	2.81025E-04	66.77924	3.140495	187.0551	0.9999906		0.998	
Barium	9.18975E-03	66.68123	1.005157	168.6956	0.9999793		0.998	
Beryllium	0.001858	66.77769	8.795792	187.3168	0.9999628		0.998	
Boron	1.50045E-05	66.68478	3.690632	145.6116	0.9999796		0.998	
Cadmium	0.013917	66.72114	0.4928225	134.7318	0.9999756		0.998	
Calcium	5.717445E-05	66.75933	1.62826	81.94192	0.9999917		0.998	
Chromium	3.96355E-05	66.68909	3.339092	127.4071	0.9999981		0.998	
Cobalt	3.74475E-03	66.66716	4.419435	191.1423	0.9999999		0.998	
Copper	8.09225E-05	66.79979	1.37455	14.98132	1		0.998	
Iron	2.12822E-05	66.83732	39.96116	198.1921	0.9999991		0.998	
Lead	9.54825E-04	66.69045	6.31733	189.572	0.9999963		0.998	
Magnesium	2.48575E-06	66.67199	23.16636	196.5008	0.9999923		0.998	
Manganese	2.442175E-04	66.7302	4.235385	131.0176	0.9999863		0.998	
Molybdenum	2.947475E-03	66.7088	14.3153	198.3368	0.9999939		0.998	
Nickel	2.747225E-03	66.67122	10.39833	196.3845	0.999999		0.998	
Potassium	1.635275E-05	67.12754	1.320205	73.83158	0.9999941		0.998	
Selenium	2.73475E-04	66.72804	43.99834	197.9197	0.9999761		0.998	
Silver	6.910375E-05	66.68756	8.20146	169.1488	0.9999334		0.998	
Sodium	6.22645E-05	66.68738	2.700293	154.9157	0.9999634		0.998	
Strontium	1.46775E-03	66.75274	1.3618	136.9236	0.999974		0.998	
Thallium	6.420825E-04	66.67801	91.65323	199.1471	0.9999967		0.998	
Tin	1.00324E-03	66.73398	1.614978	131.6499	0.999996		0.998	
Titanium	1.707275E-04	66.67652	0.79644	84.57033	0.9999989		0.998	
Vanadium	3.842925E-05	66.67998	21.8663	185.4307	0.9999945		0.998	
Zinc	0.0057227	66.67778	7.373468	196.3124	0.999997		0.998	
Aluminum	2.4489E-05	66.67075	4.95255	178.0777	0.9999999		0.998	
Antimony	5.326125E-04	66.75216	1.8996	165.3938	0.9999984		0.998	
Arsenic	2.81025E-04	66.77924	3.140495	187.0551	0.9999906		0.998	
Barium	9.18975E-03	66.68123	1.005157	168.6956	0.9999793		0.998	
Beryllium	0.001858	66.77769	8.795792	187.3168	0.9999628		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_069	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2319005		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	11/13/12 9:19	11/13/12 9:52

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	1.50045E-05	66.68478	3.690632	145.6116	0.9999796		0.998	
Cadmium	0.013917	66.72114	0.4928225	134.7318	0.9999756		0.998	
Calcium	5.717445E-05	66.75933	1.62826	81.94192	0.9999917		0.998	
Chromium	3.96355E-05	66.68909	3.339092	127.4071	0.9999981		0.998	
Cobalt	3.74475E-03	66.66716	4.419435	191.1423	0.9999999		0.998	
Copper	8.09225E-05	66.79979	1.37455	14.98132	1		0.998	
Iron	2.12822E-05	66.83732	39.96116	198.1921	0.9999991		0.998	
Lead	9.54825E-04	66.69045	6.31733	189.572	0.9999963		0.998	
Magnesium	2.48575E-06	66.67199	23.16636	196.5008	0.9999923		0.998	
Manganese	2.442175E-04	66.7302	4.235385	131.0176	0.9999863		0.998	
Molybdenum	2.947475E-03	66.7088	14.3153	198.3368	0.9999939		0.998	
Nickel	2.747225E-03	66.67122	10.39833	196.3845	0.999999		0.998	
Potassium	1.635275E-05	67.12754	1.320205	73.83158	0.9999941		0.998	
Selenium	2.73475E-04	66.72804	43.99834	197.9197	0.9999761		0.998	
Silver	6.910375E-05	66.68756	8.20146	169.1488	0.9999334		0.998	
Sodium	6.22645E-05	66.68738	2.700293	154.9157	0.9999634		0.998	
Strontium	1.46775E-03	66.75274	1.3618	136.9236	0.999974		0.998	
Thallium	6.420825E-04	66.67801	91.65323	199.1471	0.9999967		0.998	
Tin	1.00324E-03	66.73398	1.614978	131.6499	0.999996		0.998	
Titanium	1.707275E-04	66.67652	0.79644	84.57033	0.9999989		0.998	
Vanadium	3.842925E-05	66.67998	21.8663	185.4307	0.9999945		0.998	
Zinc	0.0057227	66.67778	7.373468	196.3124	0.999997		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2321003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/15/12 9:27 11/15/12 10:01

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.273E-05	10000	2.2576E-05			500000	2.164E-05		
Antimony	0	0	100	0.0006816	1000	0.0007308					10000	7.2218E-04
Arsenic	0	0	100	0.0003648	1000	3.9639E-04					10000	3.8442E-04
Barium	0	0	50	0.0124634	1000	0.012209	5000	0.0124916				
Beryllium	0	0	100	0.0023546	1000	0.0023542					10000	0.0022508
Boron	0	0	50	0.0000156	1000	1.715E-05					5000	1.655E-05
Cadmium	0	0	100	0.019212	1000	0.019523					10000	0.018463
Calcium	0	0	1100	6.718182E-05	50000	6.4308E-05					10000	
Chromium	0	0	100	0.0000517	1000	5.048E-05					10000	4.947E-05
Cobalt	0	0	100	0.0051739	1000	0.005129					10000	0.0051556
Copper	0	0	100	0.0000752	1000	6.859E-05					10000	6.621599E-05
Iron	0	0	5100	2.016079E-05	10000	1.9209E-05			500000	1.82634E-05	10000	
Lead	0	0	100	0.0013376	1000	0.0012901					10000	0.0013137
Magnesium	0	0	5100		50000	2.2372E-06			500000	2.2118E-06	10000	
Manganese	0	0	100	0.0002699	1000	2.6402E-04	10000	2.5549E-04			10000	
Molybdenum	0	0	100	0.003933	1000	0.0041079					10000	0.0040094
Nickel	0	0	100	0.0036803	1000	0.0036992					10000	0.0037143
Potassium	0	0	1000	1.263E-05	10000	1.4997E-05						
Selenium	0	0	100	0.0003722	1000	3.8461E-04					10000	3.6792E-04
Silver	0	0	20	6.999999E-05	500	5.926E-05	2000	6.0245E-05				
Sodium	0	0	1000		50000	5.7292E-05						
Strontium	0	0	100	0.001357	1000	0.001344					10000	0.001283
Thallium	0	0	100	0.0008742	1000	8.6523E-04					10000	8.7697E-04
Tin	0	0	50	0.0013306	1000	0.0014039					5000	0.0013861
Titanium	0	0	100	0.0001848	1000	1.8478E-04					10000	1.8181E-04
Vanadium	0	0	100	0.0000437	1000	4.409E-05					10000	4.3182E-05
Zinc	0	0	100	7.848701E-03	1000	0.0080337					10000	7.838099E-03

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2321003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	11/15/12 9:27 11/15/12 10:01

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	6.0518E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.1133E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.5052E-05										
Selenium												
Silver												
Sodium	100000	5.5917E-05	500000	5.4568E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	2321003	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	11/15/12 9:27	11/15/12 10:01	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.67365E-05	66.72875	3.102177	170.0703	0.9999994		0.998	
Antimony	5.33645E-04	66.78775	5.77391	175.3811	0.9999975		0.998	
Arsenic	2.864025E-04	66.82153	9.150195	196.1843	0.999988		0.998	
Barium	0.009291	66.6807	2.027427	165.3985	0.9999772		0.998	
Beryllium	0.0017399	66.72573	7.65455	179.3987	0.9999804		0.998	
Boron	1.2325E-05	66.86742	10.02394	188.6324	0.999938		0.998	
Cadmium	0.0142995	66.73923	1.127432	141.92	0.999969		0.998	
Calcium	4.800195E-05	66.90865	2.01492	164.648	0.9999621		0.998	
Chromium	3.79125E-05	66.71002	7.007855	179.27	0.9999966		0.998	
Cobalt	3.864625E-03	66.66837	1.643132	172.1158	0.9999997		0.998	
Copper	5.25015E-05	67.05866	1.256108	127.421	0.9999934		0.998	
Iron	1.44083E-05	66.88307	61.86362	197.0011	0.999999		0.998	
Lead	9.8535E-04	66.69571	4.432865	193.3738	0.9999962		0.998	
Magnesium	1.640575E-06	66.74619	4.137092	193.0871	0.9998977		0.998	
Manganese	1.973525E-04	66.73402	5.395585	180.8097	0.9999902		0.998	
Molybdenum	3.012575E-03	66.70901	6.07096	193.3322	0.9999934		0.998	
Nickel	2.77345E-03	66.66855	22.34687	196.4196	0.9999999		0.998	
Potassium	1.066975E-05	67.50118	1.651347	112.7708	0.9999982		0.998	
Selenium	2.811825E-04	66.71417	68.63606	198.7632	0.9999793		0.998	
Silver	4.737625E-05	67.44726	2.087832	135.1287	0.9999719		0.998	
Sodium	4.194425E-05	66.71937	16.61688	194.3483	0.9999684		0.998	
Strontium	0.000996	66.7453	2.408075	125.5861	0.9999787		0.998	
Thallium	0.0006541	66.67107	12.1791	195.7791	0.9999984		0.998	
Tin	1.03015E-03	66.7355	1.336803	120.7316	0.9999911		0.998	
Titanium	1.378475E-04	66.67445	4.916552	180.3294	0.999998		0.998	
Vanadium	3.2743E-05	66.67635	30.40905	195.3169	0.9999958		0.998	
Zinc	5.930125E-03	66.68387	1.686508	178.2751	0.9999939		0.998	

PREPARATION BENCH SHEET

2K02003

Empirical Laboratories, LLC

Printed: 11/18/2012 2:56:34PM

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210282-21	B	MET_ICP_6010B_FULL_DIS	11/02/2012	50	50					NA	see versions
1210282-23	B	MET_ICP_6010B_FULL_DIS	11/02/2012	50	50					NA	see versions
1210282-25	B	MET_ICP_6010B_FULL_DIS	11/02/2012	50	50					NA	see versions
1210292-02	A	MET_ICP_6010B_FULL_DIS	11/02/2012	50	50					NA	Fe & Mn
1210292-04	A	MET_ICP_6010B_FULL_DIS	11/02/2012	50	50					NA	Fe & Mn
1210292-06	A	MET_ICP_6010B_FULL_DIS	11/02/2012	50	50					NA	Fe & Mn
1210292-08	A	MET_ICP_6010B_FULL_DIS	11/02/2012	50	50					NA	Fe & Mn
1210292-10	A	MET_ICP_6010B_FULL_DIS	11/02/2012	50	50					NA	MS/MSD, Fe & Mn
1210292-12	A	MET_ICP_6010B_FULL_DIS	11/02/2012	50	50					NA	Fe & Mn
1210294-02	A	MET_ICP_6010B_FULL_DIS	11/02/2012	50	50					NA	Fe & Mn
1210294-04	A	MET_ICP_6010B_FULL_DIS	11/02/2012	50	50					NA	Fe & Mn
2K02003-BLK1		QC	11/02/2012	50	50					NA	
2K02003-BS1		QC	11/02/2012	50	50	12J0553		50000		NA	
2K02003-DUP1		QC	11/02/2012	50	50		1210292-10			NA	
2K02003-MS1		QC	11/02/2012	50	50	12J0556	1210292-10	50		NA	
2K02003-MSD1		QC	11/02/2012	50	50	12J0556	1210292-10	50		NA	

Reagents Used:

Standard	Description

PREPARATION BENCH SHEET

2K09013

Empirical Laboratories, LLC

Printed: 11/20/2012 12:30:36PM

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210282-74	E	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	see versions
1210282-78	H	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	see versions
1210282-83	H	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	see versions
1210282-87	H	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	see versions
1210282-89	H	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	see versions
1210282-91	H	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	see versions
1210282-AC	B	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	see versions
1210292-01	L	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	Ca, Pb, K, Na, Mg
1210292-03	L	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	Ca, Pb, K, Na, Mg
1210292-05	L	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	Ca, Pb, K, Na, Mg
1210292-07	L	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	Ca, Pb, K, Na, Mg
1210292-09	AJ	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	MS/MSD, Ca, Pb, K, Na, Mg
1210292-11	L	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211036-01	L	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211036-03	L	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211036-05	L	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211036-07	L	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211036-09	L	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211036-11	L	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211036-13	L	MET_ICP_6010B_FULL	11/09/2012	50	50					NA	Ca, Pb, K, Na, Mg
2K09013-BLK1		QC	11/09/2012	50	50					NA	
2K09013-BS1		QC	11/09/2012	50	50	12J0553		50000		NA	

PREPARATION BENCH SHEET

2K09013

Empirical Laboratories, LLC

Printed: 11/20/2012 12:30:36PM

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K09013-DUP1		QC	11/09/2012	50	50		1210292-09			NA	
2K09013-MS1		QC	11/09/2012	50	50	12J0556	1210292-09	50		NA	
2K09013-MSD1		QC	11/09/2012	50	50	12J0556	1210292-09	50		NA	
2K09013-PS1		QC	11/09/2012	20	20	12J0556	1210292-09	20		NA	

Reagents Used:

Standard	Description
12I0242	Hydrochloric Acid
12K0197	Nitric acid

PREPARATION BENCH SHEET

2K13008

Empirical Laboratories, LLC

Printed: 11/18/2012 2:58:03PM

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-02	A	MET_ICP_6010B_FULL_DIS	11/13/2012	50	50					NA	Fe & Mn
1211036-04	A	MET_ICP_6010B_FULL_DIS	11/13/2012	50	50					NA	Fe & Mn
1211036-06	A	MET_ICP_6010B_FULL_DIS	11/13/2012	50	50					NA	Fe & Mn
1211036-08	A	MET_ICP_6010B_FULL_DIS	11/13/2012	50	50					NA	Fe & Mn
1211036-10	A	MET_ICP_6010B_FULL_DIS	11/13/2012	50	50					NA	Fe & Mn
1211036-12	A	MET_ICP_6010B_FULL_DIS	11/13/2012	50	50					NA	Fe & Mn
1211036-14	A	MET_ICP_6010B_FULL_DIS	11/13/2012	50	50					NA	Fe & Mn
1211036-16	C	MET_ICP_6010B_FULL_DIS	11/13/2012	50	50					NA	MS/MSD, Fe & Mn
1211036-18	A	MET_ICP_6010B_FULL_DIS	11/13/2012	50	50					NA	Fe & Mn
1211036-20	C	MET_ICP_6010B_FULL_DIS	11/13/2012	50	50					NA	MS/MSD, Fe & Mn
1211036-22	A	MET_ICP_6010B_FULL_DIS	11/13/2012	50	50					NA	Fe & Mn
1211075-03	A	MET_ICP_6010B_FULL_DIS	11/13/2012	50	50					NA	Fe & Mn
2K13008-BLK1		QC	11/13/2012	50	50					NA	
2K13008-BS1		QC	11/13/2012	50	50	12J0553		50000		NA	
2K13008-DUP1		QC	11/13/2012	50	50		1211036-16			NA	
2K13008-DUP2		QC	11/13/2012	50	50		1211036-20			NA	
2K13008-MS1		QC	11/13/2012	50	50	12J0556	1211036-16	50		NA	
2K13008-MS2		QC	11/13/2012	50	50	12J0556	1211036-20	50		NA	
2K13008-MSD1		QC	11/13/2012	50	50	12J0556	1211036-16	50		NA	
2K13008-MSD2		QC	11/13/2012	50	50	12J0556	1211036-20	50		NA	

Reagents Used:

Standard	Description

PREPARATION BENCH SHEET

2K13008

Empirical Laboratories, LLC

Printed: 11/18/2012 2:58:03PM

Instrument:

Matrix: Water

Prepared using: METALS - MET_3005A

(No Surrogate)

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

PREPARATION BENCH SHEET

2K14014

Empirical Laboratories, LLC

Printed: 11/19/2012 3:55:05PM

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211035-02	E	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	See Version
1211035-03	E	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	See Version
1211035-04	E	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	See Version
1211035-05	E	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	See Version
1211035-06	E	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	See Version
1211035-07	E	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	See Version
1211036-15	AJ	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	MS/MSD, Ca, Pb, K, Na, Mg
1211036-15	AJ	MET_ICP_200.7_FULL	11/14/2012	50	50					NA	Added for BatchQC in: 2K14014
1211036-17	L	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211036-19	AJ	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	MS/MSD, Ca, Pb, K, Na, Mg
1211036-19	AJ	MET_ICP_200.7_FULL	11/14/2012	50	50					NA	Added for BatchQC in: 2K14014
1211036-21	L	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	Ca, Pb, K, Na, Mg
1211037-13	G	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	see version
1211037-13RE1	G	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	see version
1211068-01	B	MET_ICP_200.7_FULL	11/14/2012	50	50					NA	See versions
1211068-01RE1	B	MET_ICP_200.7_FULL	11/14/2012	50	50					NA	See versions
1211082-01	A	MET_ICP_200.7_FULL	11/14/2012	50	50					NA	See Version
1211082-02	A	MET_ICP_200.7_FULL	11/14/2012	50	50					NA	See Version
1211083-01	A	MET_ICP_200.7_FULL	11/14/2012	50	50					NA	Post filtered for metals-->ashless 40.
1211083-02	A	MET_ICP_200.7_FULL	11/14/2012	50	50					NA	See Version
1211094-02	A	MET_ICP_200.7_FULL	11/14/2012	50	50					NA	
1211111-01	C	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	CHeck Version

PREPARATION BENCH SHEET

2K14014

Empirical Laboratories, LLC

Printed: 11/19/2012 3:55:05PM

Instrument:

Matrix: Water **Prepared using: METALS - MET_3005A** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211111-02	C	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	CHeck Version
1211111-03	C	MET_ICP_6010B_FULL	11/14/2012	50	50					NA	CHeck Version
2K14014-BLK1		QC	11/14/2012	50	50					NA	
2K14014-BS1		QC	11/14/2012	50	50	12J0553		50000		NA	
2K14014-DUP1		QC	11/14/2012	50	50		1211036-15			NA	
2K14014-DUP2		QC	11/14/2012	50	50		1211036-19			NA	
2K14014-MS1		QC	11/14/2012	50	50	12J0556	1211036-15	50		NA	
2K14014-MS2		QC	11/14/2012	50	50	12J0556	1211036-19	50		NA	
2K14014-MSD1		QC	11/14/2012	50	50	12J0556	1211036-15	50		NA	
2K14014-MSD2		QC	11/14/2012	50	50	12J0556	1211036-19	50		NA	
2K14014-PS1		QC	11/14/2012	20	20	12J0556	1211036-15	20		NA	
2K14014-PS2		QC	11/14/2012	20	20	12J0556	1211036-19	20		NA	

Reagents Used:

Standard	Description
12I0242	Hydrochloric Acid
12K0197	Nitric acid

Data for Wet Chemistry Forms

Sample Extraction Data

Prep Method: pNone-SM4500S2CF

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1210292-01 [GW0786]	2K01007	250.00/200.00	270	200	1.00			11/01/12
1210292-03 [GW0787]	2K01007	250.00/200.00	270	200	1.00			11/01/12
1210292-05 [GW0788]	2K01007	250.00/200.00	270	200	1.00			11/01/12
1210292-07 [GW0848]	2K01007	250.00/200.00	270	200	1.00			11/01/12
1210292-09 [GW0849]	2K01007	250.00/200.00	270	200	1.00			11/01/12
1210292-11 [GW0850]	2K01007	250.00/200.00	270	200	1.00			11/01/12

Sample Extraction Data

Prep Method: pNone-SM4500S2CF

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-01 [GW0755]	2K07015	250.00/200.00	270	200	1.00			11/07/12
1211036-03 [GW0762]	2K07015	250.00/200.00	295	200	1.00			11/07/12
1211036-05 [GW0763]	2K07015	250.00/200.00	270	200	1.00			11/07/12
1211036-07 [GW0802]	2K07015	250.00/200.00	270	200	1.00			11/07/12
1211036-09 [GW0803]	2K07015	250.00/200.00	295	200	1.00			11/07/12
1211036-11 [GW0804]	2K07015	250.00/200.00	270	200	1.00			11/07/12
1211036-13 [GW0812]	2K07015	250.00/200.00	270	200	1.00			11/07/12
1211036-15 [GW0813]	2K07015	250.00/200.00	270	200	1.00			11/07/12
1211036-17 [GW0814]	2K07015	250.00/200.00	295	200	1.00			11/07/12
1211036-19 [GW0832]	2K07015	250.00/200.00	295	200	1.00			11/07/12
1211036-21 [GW0833]	2K07015	250.00/200.00	295	200	1.00			11/07/12

Sample Extraction Data

Prep Method: pNone-SM2320B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1210292-07 [GW0848]	2K12002	25.00/25.00	25.0	25.0	1.00			11/12/12
1210292-09 [GW0849]	2K12002	25.00/25.00	25.0	25.0	1.00			11/12/12
1210292-11 [GW0850]	2K12002	25.00/25.00	25.0	25.0	1.00			11/12/12

Sample Extraction Data

Prep Method: pNone-SM2320B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1210292-01 [GW0786]	2K13012	25.00/25.00	25.0	25.0	1.00			11/13/12
1210292-03 [GW0787]	2K13012	25.00/25.00	25.0	25.0	1.00			11/13/12
1210292-05 [GW0788]	2K13012	25.00/25.00	25.0	25.0	1.00			11/13/12

Sample Extraction Data

Prep Method: pNone-E300.0

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1210292-01 [GW0786]	2K13033	5.00/5.00	5.00	5.00	1.00			11/13/12
1210292-03 [GW0787]	2K13033	5.00/5.00	5.00	5.00	1.00			11/13/12
1210292-05 [GW0788]	2K13033	5.00/5.00	5.00	5.00	1.00			11/13/12
1210292-07 [GW0848]	2K13033	5.00/5.00	5.00	5.00	1.00			11/13/12
1210292-09 [GW0849]	2K13033	5.00/5.00	5.00	5.00	1.00			11/13/12
1210292-11 [GW0850]	2K13033	5.00/5.00	5.00	5.00	1.00			11/13/12

Sample Extraction Data

Prep Method: pNone-SM2320B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-07 [GW0802]	2K14017	25.00/25.00	25.0	25.0	1.00			11/14/12
1211036-09 [GW0803]	2K14017	25.00/25.00	25.0	25.0	1.00			11/14/12
1211036-11 [GW0804]	2K14017	25.00/25.00	25.0	25.0	1.00			11/14/12
1211036-13 [GW0812]	2K14017	25.00/25.00	25.0	25.0	1.00			11/14/12
1211036-15 [GW0813]	2K14017	25.00/25.00	25.0	25.0	1.00			11/14/12
1211036-17 [GW0814]	2K14017	25.00/25.00	25.0	25.0	1.00			11/14/12

Sample Extraction Data

Prep Method: pNone-E300.0

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-01 [GW0755]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12
1211036-03 [GW0762]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12
1211036-05 [GW0763]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12
1211036-07 [GW0802]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12
1211036-09 [GW0803]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12
1211036-11 [GW0804]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12
1211036-13 [GW0812]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12
1211036-15 [GW0813]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12
1211036-17 [GW0814]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12
1211036-19 [GW0832]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12
1211036-21 [GW0833]	2K14023	5.00/5.00	5.00	5.00	1.00			11/14/12

Sample Extraction Data

Prep Method: pNone-SM4500NH3BG

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1210292-01 [GW0786]	2K15006	100.00/100.00	100	100	1.00			11/15/12
1210292-03 [GW0787]	2K15006	100.00/100.00	100	100	1.00			11/15/12
1210292-05 [GW0788]	2K15006	100.00/100.00	100	100	1.00			11/15/12
1210292-07 [GW0848]	2K15006	100.00/100.00	100	100	1.00			11/15/12
1210292-09 [GW0849]	2K15006	100.00/100.00	100	100	1.00			11/15/12
1210292-11 [GW0850]	2K15006	100.00/100.00	100	100	1.00			11/15/12

Sample Extraction Data

Prep Method: pNone-SM2320B

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-01 [GW0755]	2K15019	25.00/25.00	25.0	25.0	1.00			11/15/12
1211036-03 [GW0762]	2K15019	25.00/25.00	25.0	25.0	1.00			11/15/12
1211036-05 [GW0763]	2K15019	25.00/25.00	25.0	25.0	1.00			11/15/12
1211036-19 [GW0832]	2K15019	25.00/25.00	25.0	25.0	1.00			11/15/12
1211036-21 [GW0833]	2K15019	25.00/25.00	25.0	25.0	1.00			11/15/12

Sample Extraction Data

Prep Method: pNone-SM4500NH3BG

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-01 [GW0755]	2K16021	100.00/100.00	100	100	1.00			11/16/12
1211036-03 [GW0762]	2K16021	100.00/100.00	100	100	1.00			11/16/12
1211036-05 [GW0763]	2K16021	100.00/100.00	100	100	1.00			11/16/12
1211036-07 [GW0802]	2K16021	100.00/100.00	100	100	1.00			11/16/12
1211036-09 [GW0803]	2K16021	100.00/100.00	100	100	1.00			11/16/12
1211036-11 [GW0804]	2K16021	100.00/100.00	100	100	1.00			11/16/12
1211036-13 [GW0812]	2K16021	100.00/100.00	100	100	1.00			11/16/12
1211036-17 [GW0814]	2K16021	100.00/100.00	100	100	1.00			11/16/12
1211036-19 [GW0832]	2K16021	100.00/100.00	100	100	1.00			11/16/12
1211036-21 [GW0833]	2K16021	100.00/100.00	100	100	1.00			11/16/12

Sample Extraction Data

Prep Method: pNone-E353.2

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1210292-01 [GW0786]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1210292-03 [GW0787]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1210292-05 [GW0788]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1210292-07 [GW0848]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1210292-09 [GW0849]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1210292-11 [GW0850]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1211036-01 [GW0755]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1211036-03 [GW0762]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1211036-05 [GW0763]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1211036-07 [GW0802]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1211036-09 [GW0803]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1211036-11 [GW0804]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1211036-13 [GW0812]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1211036-15 [GW0813]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1211036-17 [GW0814]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12
1211036-21 [GW0833]	2K16035	20.00/20.00	4.00	20.0	1.00			11/16/12

Sample Extraction Data

Prep Method: pNone-E353.2

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-19 [GW0832]	2K17002	20.00/20.00	4.00	20.0	1.00			11/17/12

Sample Extraction Data

Prep Method: pNone-SM4500NH3BG

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-15 [GW0813]	2K19001	100.00/100.00	100	100	1.00			11/19/12

Sample Extraction Data

Prep Method: pNone-E300.0

Lab Number [Field ID]	Batch	Nominal Initial/Final	Initial [mL]	Final [mL]	Dilution	% Solids	Notes	Date
1211036-07RE1 [GW0802]	2K19023	5.00/5.00	5.00	5.00	5.00			11/14/12

ANALYSIS DATA SHEET

GW0786

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-01
Sampled:	10/30/12 15:41	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K15006	11/15/12 13:12
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K01007	11/01/12 14:36
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**111**	1.00	1.00	1.00	1		SM2320B	2K13012	11/13/12 12:06
16887-00-6	Chloride	**20.7**	0.170	0.330	0.500	1		E300.0	2K13033	11/14/12 00:16
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K16035	11/16/12 15:16
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K13012	11/13/12 12:06
14808-79-8	Sulfate as SO4	**44.2**	0.330	1.00	2.50	1	M	E300.0	2K13033	11/14/12 00:16

ANALYSIS DATA SHEET

GW0787

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 10/30/12 13:25
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 1210292-03
Received: 10/31/12 08:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K15006	11/15/12 13:13
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K01007	11/01/12 14:37
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**117**	1.00	1.00	1.00	1		SM2320B	2K13012	11/13/12 12:13
16887-00-6	Chloride	**44.6**	0.170	0.330	0.500	1		E300.0	2K13033	11/14/12 00:34
NA	Nitrate/Nitrite as N	**0.796**	0.250	0.750	1.50	1	J	E353.2	2K16035	11/16/12 15:17
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K13012	11/13/12 12:13
14808-79-8	Sulfate as SO4	**71.0**	0.330	1.00	2.50	1	M	E300.0	2K13033	11/14/12 00:34

ANALYSIS DATA SHEET

GW0788

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-05
Sampled:	10/30/12 11:05	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K15006	11/15/12 13:14
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K01007	11/01/12 14:37
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**108**	1.00	1.00	1.00	1		SM2320B	2K13012	11/13/12 12:21
16887-00-6	Chloride	**18.4**	0.170	0.330	0.500	1		E300.0	2K13033	11/14/12 00:51
NA	Nitrate/Nitrite as N	**0.260**	0.250	0.750	1.50	1	J	E353.2	2K16035	11/16/12 15:19
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K13012	11/13/12 12:21
14808-79-8	Sulfate as SO4	**46.5**	0.330	1.00	2.50	1	M	E300.0	2K13033	11/14/12 00:51

ANALYSIS DATA SHEET

GW0848

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-07
Sampled:	10/29/12 16:50	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K15006	11/15/12 13:17
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K01007	11/01/12 14:38
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**143**	1.00	1.00	1.00	1		SM2320B	2K12002	11/12/12 11:38
16887-00-6	Chloride	**27.6**	0.170	0.330	0.500	1		E300.0	2K13033	11/14/12 02:53
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K16035	11/16/12 15:20
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K12002	11/12/12 11:38
14808-79-8	Sulfate as SO4	**45.6**	0.330	1.00	2.50	1	M	E300.0	2K13033	11/14/12 02:53

ANALYSIS DATA SHEET

GW0849

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 10/29/12 14:00
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 1210292-09
Received: 10/31/12 08:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K15006	11/15/12 13:18
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K01007	11/01/12 14:39
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**125**	1.00	1.00	1.00	1		SM2320B	2K12002	11/12/12 11:46
16887-00-6	Chloride	**24.7**	0.170	0.330	0.500	1		E300.0	2K13033	11/13/12 21:39
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K16035	11/16/12 15:22
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K12002	11/12/12 11:46
14808-79-8	Sulfate as SO4	**44.3**	0.330	1.00	2.50	1	M	E300.0	2K13033	11/13/12 21:39

ANALYSIS DATA SHEET

GW0850

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1210292-11
Sampled:	10/29/12 11:17	Received:	10/31/12 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K15006	11/15/12 13:21
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K01007	11/01/12 14:40
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**99.3**	1.00	1.00	1.00	1		SM2320B	2K12002	11/12/12 11:55
16887-00-6	Chloride	**7.13**	0.170	0.330	0.500	1		E300.0	2K13033	11/14/12 01:09
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K16035	11/16/12 15:26
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K12002	11/12/12 11:55
14808-79-8	Sulfate as SO4	**28.4**	0.330	1.00	2.50	1	M	E300.0	2K13033	11/14/12 01:09

ANALYSIS DATA SHEET

GW0755

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-01
Sampled:	11/01/12 12:13	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K16021	11/19/12 12:18
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K07015	11/07/12 10:32
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**115**	1.00	1.00	1.00	1		SM2320B	2K15019	11/15/12 12:10
16887-00-6	Chloride	**23.5**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 17:55
NA	Nitrate/Nitrite as N	**1.19**	0.250	0.750	1.50	1	J	E353.2	2K16035	11/16/12 15:27
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K15019	11/15/12 12:10
14808-79-8	Sulfate as SO4	**53.4**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/14/12 17:55

ANALYSIS DATA SHEET

GW0762

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-03
Sampled:	11/01/12 15:33	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K16021	11/19/12 12:19
18496-25-8	Sulfide	**4.99**	0.678	1.69	3.39	1		SM4500S2CF	2K07015	11/07/12 10:33
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**198**	1.00	1.00	1.00	1		SM2320B	2K15019	11/15/12 12:12
16887-00-6	Chloride	**51.5**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 18:13
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K16035	11/16/12 15:29
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K15019	11/15/12 12:12
14808-79-8	Sulfate as SO4	**40.1**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/14/12 18:13

ANALYSIS DATA SHEET

GW0763

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-05
Sampled:	11/01/12 09:34	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K16021	11/19/12 12:20
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K07015	11/07/12 10:34
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**146**	1.00	1.00	1.00	1		SM2320B	2K15019	11/15/12 12:22
16887-00-6	Chloride	**8.91**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 18:30
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K16035	11/16/12 15:30
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K15019	11/15/12 12:22
14808-79-8	Sulfate as SO4	**28.4**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/14/12 18:30

ANALYSIS DATA SHEET

GW0802

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-07
Sampled:	10/31/12 15:32	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K16021	11/19/12 12:21
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K07015	11/07/12 10:35
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**73.1**	1.00	1.00	1.00	1		SM2320B	2K14017	11/14/12 11:40
16887-00-6	Chloride	**104**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 18:48
NA	Nitrate/Nitrite as N	**3.90**	0.250	0.750	1.50	1		E353.2	2K16035	11/16/12 15:32
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K14017	11/14/12 11:40
14808-79-8	Sulfate as SO4	**444**	1.65	5.00	12.5	5	DM	E300.0	2K19023	11/19/12 19:06

ANALYSIS DATA SHEET

GW0803

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-09
Sampled:	10/31/12 13:17	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K16021	11/19/12 12:22
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2K07015	11/07/12 10:36
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**88.4**	1.00	1.00	1.00	1		SM2320B	2K14017	11/14/12 11:47
16887-00-6	Chloride	**59.0**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 20:50
NA	Nitrate/Nitrite as N	**2.02**	0.250	0.750	1.50	1		E353.2	2K16035	11/16/12 15:36
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K14017	11/14/12 11:47
14808-79-8	Sulfate as SO4	**85.3**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/14/12 20:50

ANALYSIS DATA SHEET

GW0804

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-11
Sampled:	10/31/12 10:51	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K16021	11/19/12 12:23
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K07015	11/07/12 10:37
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**94.0**	1.00	1.00	1.00	1		SM2320B	2K14017	11/14/12 11:52
16887-00-6	Chloride	**26.5**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 21:07
NA	Nitrate/Nitrite as N	**0.766**	0.250	0.750	1.50	1	J	E353.2	2K16035	11/16/12 15:38
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K14017	11/14/12 11:52
14808-79-8	Sulfate as SO4	**54.7**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/14/12 21:07

ANALYSIS DATA SHEET

GW0812

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-13
Sampled:	10/31/12 16:27	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K16021	11/19/12 12:24
18496-25-8	Sulfide	**1.00**	0.741	1.85	3.70	1	J	SM4500S2CF	2K07015	11/07/12 10:38
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**262**	1.00	1.00	1.00	1		SM2320B	2K14017	11/14/12 12:01
16887-00-6	Chloride	**28.3**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 21:24
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K16035	11/16/12 15:39
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K14017	11/14/12 12:01
14808-79-8	Sulfate as SO4	**17.6**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/14/12 21:24

ANALYSIS DATA SHEET

GW0813

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-15
Sampled:	10/31/12 13:44	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K19001	11/19/12 12:44
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	2K07015	11/07/12 10:39
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**121**	1.00	1.00	1.00	1		SM2320B	2K14017	11/14/12 12:15
16887-00-6	Chloride	**14.5**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 19:05
NA	Nitrate/Nitrite as N	**0.270**	0.250	0.750	1.50	1	J	E353.2	2K16035	11/16/12 15:41
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K14017	11/14/12 12:15
14808-79-8	Sulfate as SO4	**37.1**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/14/12 19:05

ANALYSIS DATA SHEET

GW0814

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-17
Sampled:	10/31/12 11:21	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K16021	11/19/12 12:24
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2K07015	11/07/12 10:42
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**96.9**	1.00	1.00	1.00	1		SM2320B	2K14017	11/14/12 12:20
16887-00-6	Chloride	**6.80**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 21:42
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K16035	11/16/12 15:45
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K14017	11/14/12 12:20
14808-79-8	Sulfate as SO4	**27.6**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/14/12 21:42

ANALYSIS DATA SHEET

GW0832

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-19
Sampled:	11/01/12 13:37	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K16021	11/19/12 12:25
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2K07015	11/07/12 10:43
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**100**	1.00	1.00	1.00	1		SM2320B	2K15019	11/15/12 12:29
16887-00-6	Chloride	**7.31**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 22:34
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K17002	11/17/12 12:58
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K15019	11/15/12 12:29
14808-79-8	Sulfate as SO4	**28.2**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/14/12 22:34

ANALYSIS DATA SHEET

GW0833

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1211036-21
Sampled:	11/01/12 11:17	Received:	11/02/12 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	2K16021	11/19/12 12:28
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	2K07015	11/07/12 10:46
71-52-3	Alkalinity, Bicarbonate (as CACO3)	**99.3**	1.00	1.00	1.00	1		SM2320B	2K15019	11/15/12 12:32
16887-00-6	Chloride	**7.55**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 21:59
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	2K16035	11/16/12 15:46
3812-32-6	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	2K15019	11/15/12 12:32
14808-79-8	Sulfate as SO4	**27.6**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/14/12 21:59

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K01007-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	ND	0.800	2.00	4.00	1	U	SM4500S2CF	2K01007	11/01/12 14:30

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K01007-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	**1017**	83.3	208	417	1		SM4500S2CF	2K01007	11/01/12 14:30

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K01007-MS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	**918.0**	90.0	225	450	1		SM4500S2CF	2K01007	11/01/12 14:39

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K01007-MSD1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	**936.0**	90.0	225	450	1		SM4500S2CF	2K01007	11/01/12 14:40

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K07015-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	ND	0.800	2.00	4.00	1	U	SM4500S2CF	2K07015	11/07/12 10:31

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K07015-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	**1184**	83.3	208	417	1		SM4500S2CF	2K07015	11/07/12 10:30

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K07015-MS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	**1314**	90.0	225	450	1		SM4500S2CF	2K07015	11/07/12 10:40

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K07015-MS2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	**1377**	98.3	246	492	1		SM4500S2CF	2K07015	11/07/12 10:44

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K07015-MSD1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	**1242**	90.0	225	450	1		SM4500S2CF	2K07015	11/07/12 10:41

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K07015-MSD2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
18496-25-8	Sulfide	**1318**	98.3	246	492	1		SM4500S2CF	2K07015	11/07/12 10:45

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K12002-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	ND	1.00	1.00	1.00	1	U	SM2320B	2K12002	11/12/12 10:00

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K12002-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**1021**	5.00	5.00	5.00	1		SM2320B	2K12002	11/12/12 09:54

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K12002-MS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**235.5**	1.11	1.11	1.11	1		SM2320B	2K12002	11/12/12 10:06

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K12002-MSD1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**234.1**	1.11	1.11	1.11	1		SM2320B	2K12002	11/12/12 10:17

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K13012-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	ND	1.00	1.00	1.00	1	U	SM2320B	2K13012	11/13/12 12:03

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K13012-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**1015**	5.00	5.00	5.00	1		SM2320B	2K13012	11/13/12 12:00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K13033-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	ND	0.170	0.330	0.500	1	U	E300.0	2K13033	11/13/12 19:37
14808-79-8	Sulfate as SO4	ND	0.330	1.00	2.50	1	M U	E300.0	2K13033	11/13/12 19:37

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K13033-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**4.902**	0.170	0.330	0.500	1		E300.0	2K13033	11/13/12 19:02
14808-79-8	Sulfate as SO4	**23.58**	0.330	1.00	2.50	1	M	E300.0	2K13033	11/13/12 19:02

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K13033-DUP1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**24.76**	0.170	0.330	0.500	1		E300.0	2K13033	11/13/12 22:32
14808-79-8	Sulfate as SO4	**44.42**	0.330	1.00	2.50	1	M	E300.0	2K13033	11/13/12 22:32

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K13033-DUP2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**7.129**	0.170	0.330	0.500	1		E300.0	2K13033	11/14/12 02:01
14808-79-8	Sulfate as SO4	**28.51**	0.330	1.00	2.50	1	M	E300.0	2K13033	11/14/12 02:01

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K13033-MS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**52.67**	0.189	0.367	0.556	1		E300.0	2K13033	11/13/12 21:57
14808-79-8	Sulfate as SO4	**72.81**	0.367	1.11	2.78	1	M	E300.0	2K13033	11/13/12 21:57

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K13033-MS2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**35.32**	0.189	0.367	0.556	1		E300.0	2K13033	11/14/12 01:26
14808-79-8	Sulfate as SO4	**56.67**	0.367	1.11	2.78	1	M	E300.0	2K13033	11/14/12 01:26

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K13033-MSD1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**52.82**	0.189	0.367	0.556	1		E300.0	2K13033	11/13/12 22:14
14808-79-8	Sulfate as SO4	**73.08**	0.367	1.11	2.78	1	M	E300.0	2K13033	11/13/12 22:14

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K13033-MSD2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**35.53**	0.189	0.367	0.556	1		E300.0	2K13033	11/14/12 01:44
14808-79-8	Sulfate as SO4	**57.17**	0.367	1.11	2.78	1	M	E300.0	2K13033	11/14/12 01:44

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14017-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	ND	1.00	1.00	1.00	1	U	SM2320B	2K14017	11/14/12 11:28

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14017-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**1015**	5.00	5.00	5.00	1		SM2320B	2K14017	11/14/12 11:24

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K14017-MS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**235.5**	1.11	1.11	1.11	1		SM2320B	2K14017	11/14/12 11:29

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K14017-MSD1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**233.7**	1.11	1.11	1.11	1		SM2320B	2K14017	11/14/12 11:33

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14023-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	ND	0.170	0.330	0.500	1	U	E300.0	2K14023	11/14/12 17:03
14808-79-8	Sulfate as SO4	ND	0.330	1.00	2.50	1	M U	E300.0	2K14023	11/14/12 17:03

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids:

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K14023-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**5.190**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 16:28
14808-79-8	Sulfate as SO4	**24.06**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/14/12 16:28

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K14023-DUP1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**14.52**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 19:57
14808-79-8	Sulfate as SO4	**37.19**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/14/12 19:57

ANALYSIS DATA SHEET

Duplicate

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K14023-DUP2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**7.318**	0.170	0.330	0.500	1		E300.0	2K14023	11/14/12 23:26
14808-79-8	Sulfate as SO4	**28.30**	0.330	1.00	2.50	1	M	E300.0	2K14023	11/14/12 23:26

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K14023-MS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**43.50**	0.189	0.367	0.556	1		E300.0	2K14023	11/14/12 19:22
14808-79-8	Sulfate as SO4	**65.93**	0.367	1.11	2.78	1	M	E300.0	2K14023	11/14/12 19:22

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K14023-MS2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**35.94**	0.189	0.367	0.556	1		E300.0	2K14023	11/14/12 22:51
14808-79-8	Sulfate as SO4	**56.84**	0.367	1.11	2.78	1	M	E300.0	2K14023	11/14/12 22:51

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14023-MSD1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**43.60**	0.189	0.367	0.556	1		E300.0	2K14023	11/14/12 19:40
14808-79-8	Sulfate as SO4	**66.16**	0.367	1.11	2.78	1	M	E300.0	2K14023	11/14/12 19:40

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K14023-MSD2

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**36.02**	0.189	0.367	0.556	1		E300.0	2K14023	11/14/12 23:09
14808-79-8	Sulfate as SO4	**57.02**	0.367	1.11	2.78	1	M	E300.0	2K14023	11/14/12 23:09

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K15006-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	ND	0.110	0.150	0.300	1	U	SM4500NH3BG	2K15006	11/15/12 13:04

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K15006-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**4.894**	0.110	0.150	0.300	1		SM4500NH3BG	2K15006	11/15/12 13:05

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K15006-MS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**5.177**	0.110	0.150	0.300	1		SM4500NH3BG	2K15006	11/15/12 13:19

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K15006-MSD1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**4.845**	0.110	0.150	0.300	1		SM4500NH3BG	2K15006	11/15/12 13:20

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K15019-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	ND	1.00	1.00	1.00	1	U	SM2320B	2K15019	11/15/12 11:55

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K15019-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**1013**	5.00	5.00	5.00	1		SM2320B	2K15019	11/15/12 11:47

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K15019-MS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**203.2**	1.11	1.11	1.11	1		SM2320B	2K15019	11/15/12 11:57

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K15019-MSD1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
471-34-1	Alkalinity, Total (as CACO3)	**204.5**	1.11	1.11	1.11	1		SM2320B	2K15019	11/15/12 12:04

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K16021-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	ND	0.110	0.150	0.300	1	U	SM4500NH3BG	2K16021	11/19/12 12:16

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K16021-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**5.123**	0.110	0.150	0.300	1		SM4500NH3BG	2K16021	11/19/12 12:17

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K16021-MS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**5.349**	0.110	0.150	0.300	1		SM4500NH3BG	2K16021	11/19/12 12:26

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K16021-MSD1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**5.165**	0.110	0.150	0.300	1		SM4500NH3BG	2K16021	11/19/12 12:27

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K16035-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	ND	0.0500	0.150	0.300	1	U	E353.2	2K16035	11/16/12 15:13

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K16035-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	**14.22**	1.00	3.00	6.00	1		E353.2	2K16035	11/16/12 15:14

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K16035-MS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	**2.477**	0.250	0.750	1.50	1		E353.2	2K16035	11/16/12 15:23

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K16035-MS3

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	**2.666**	0.250	0.750	1.50	1		E353.2	2K16035	11/16/12 15:54

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K16035-MSD1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	**2.539**	0.250	0.750	1.50	1		E353.2	2K16035	11/16/12 15:25

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K16035-MSD3

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	**2.691**	0.250	0.750	1.50	1		E353.2	2K16035	11/16/12 15:55

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K17002-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	ND	0.0500	0.150	0.300	1	U	E353.2	2K17002	11/17/12 12:55

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K17002-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	**14.27**	1.00	3.00	6.00	1		E353.2	2K17002	11/17/12 12:57

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K17002-MS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	**2.665**	0.250	0.750	1.50	1		E353.2	2K17002	11/17/12 13:00

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 2K17002-MSD1
% Solids: 0.00

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
NA	Nitrate/Nitrite as N	**2.642**	0.250	0.750	1.50	1		E353.2	2K17002	11/17/12 13:01

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K19001-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	ND	0.110	0.150	0.300	1	U	SM4500NH3BG	2K19001	11/19/12 12:43

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K19001-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**5.126**	0.110	0.150	0.300	1		SM4500NH3BG	2K19001	11/19/12 12:43

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

% Solids: 0.00

SDG: Kirtland_069

Project: Kirtland AFB 2011

Laboratory ID: 2K19001-MS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**5.273**	0.110	0.150	0.300	1		SM4500NH3BG	2K19001	11/19/12 12:45

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids: 0.00

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K19001-MSD1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	**5.453**	0.110	0.150	0.300	1		SM4500NH3BG	2K19001	11/19/12 12:46

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K19023-BLK1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	ND	0.170	0.330	0.500	1	U	E300.0	2K19023	11/19/12 18:48
14808-79-8	Sulfate as SO4	ND	0.330	1.00	2.50	1	U	E300.0	2K19023	11/19/12 18:48

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
% Solids:

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K19023-BS1

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
16887-00-6	Chloride	**4.482**	0.170	0.330	0.500	1		E300.0	2K19023	11/19/12 18:14
14808-79-8	Sulfate as SO4	**20.74**	0.330	1.00	2.50	1		E300.0	2K19023	11/19/12 18:14

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_069
Project: Kirtland AFB 2011
Calibration: 2314001
Sequence: 2K31404

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K31404-ICV1	Chloride	4.800	4.831	101	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.52	98.0	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_069
Project: Kirtland AFB 2011
Calibration: 2314001
Sequence: 2K32010

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K32010-CCV1	Chloride	25.00	24.13	96.5	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.69	98.8	mg/L	+/- 10.00%
2K32010-CCV2	Chloride	25.00	24.82	99.3	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.96	99.8	mg/L	+/- 10.00%
2K32010-CCV3	Chloride	25.00	24.78	99.1	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.94	99.8	mg/L	+/- 10.00%
2K32010-CCV4	Chloride	25.00	25.13	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.88	99.5	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_069
Project: Kirtland AFB 2011
Calibration: 2320001
Sequence: 2K32012

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K32012-ICV1	Ammonia as N	2.000	2.110	106	mg/L	+/- 10.00%
2K32012-CCV1	Ammonia as N	2.000	2.028	101	mg/L	+/- 10.00%
2K32012-CCV2	Ammonia as N	2.000	2.133	107	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E353.2

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_069
Project: Kirtland AFB 2011
Calibration: 2321005
Sequence: 2K32117

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K32117-ICV1	Nitrate/Nitrite as N	1.200	1.220	102	mg/L	+/- 10.00%
2K32117-CCV1	Nitrate/Nitrite as N	1.200	1.223	102	mg/L	+/- 10.00%
2K32117-CCV2	Nitrate/Nitrite as N	1.200	1.214	101	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E353.2

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_069
Project: Kirtland AFB 2011
Calibration: 2322002
Sequence: 2K32202

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K32202-ICV1	Nitrate/Nitrite as N	1.200	1.233	103	mg/L	+/- 10.00%
2K32202-CCV1	Nitrate/Nitrite as N	1.200	1.232	103	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_069
Project: Kirtland AFB 2011
Calibration: 2314001
Sequence: 2K32405

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K32405-CCV1	Chloride	25.00	25.22	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.41	102	mg/L	+/- 10.00%
2K32405-CCV2	Chloride	25.00	25.35	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.08	100	mg/L	+/- 10.00%
2K32405-CCV3	Chloride	25.00	25.53	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.20	101	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: Kirtland_069
Project: Kirtland AFB 2011
Calibration: 2324003
Sequence: 2K32411

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K32411-ICV1	Ammonia as N	2.000	2.144	107	mg/L	+/- 10.00%
2K32411-CCV1	Ammonia as N	2.000	2.142	107	mg/L	+/- 10.00%
2K32411-CCV2	Ammonia as N	2.000	2.104	105	mg/L	+/- 10.00%
2K32411-CCV3	Ammonia as N	2.000	2.121	106	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: Kirtland_069
Project: Kirtland AFB 2011
Calibration: 2314001
Sequence: 2K32510

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2K32510-CCV1	Sulfate as SO4	25.00	24.81	99.2	mg/L	+/- 10.00%
2K32510-CCV2	Sulfate as SO4	25.00	25.01	100	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2314001

Sequence: 2K32010

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K32010-CRL1	Chloride	0.5000	0.4490	89.8	mg/L	75 - 125
2K32010-CRL3	Sulfate as SO4	2.500	2.223	88.9	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2314001

Sequence: 2K32405

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K32405-CRL1	Chloride	0.5000	0.4690	93.8	mg/L	75 - 125
2K32405-CRL3	Sulfate as SO4	2.500	2.318	92.7	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 2314001

Sequence: 2K32510

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2K32510-CRL3	Sulfate as SO4	2.500	2.313	92.5	mg/L	75 - 125

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K01007

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K01007-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K07015

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K07015-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K12002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K12002-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K13012

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K13012-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K13033

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K13033-BLK1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.50	mg/L	U	E300.0

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K14017

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K14017-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K14023

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K14023-BLK1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.50	mg/L	U	E300.0

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K15006

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K15006-BLK1	Ammonia as N	-0.0147	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K15019

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K15019-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K16021

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K16021-BLK1	Ammonia as N	0.00779	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K16035

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K16035-BLK1	Nitrate/Nitrite as N	-0.0294	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K17002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K17002-BLK1	Nitrate/Nitrite as N	-0.0288	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K19001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K19001-BLK1	Ammonia as N	0.0761	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 2K19023

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K19023-BLK1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.50	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K31404
Calibration: 2314001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K31404-ICB1	Chloride	0.000	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.000	0.330	2.50	mg/L	U	E300.0
2K31404-CCB1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.50	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K32010
Calibration: 2314001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K32010-CCB1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.50	mg/L	U	E300.0
2K32010-CCB2	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.50	mg/L	U	E300.0
2K32010-CCB3	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.50	mg/L	U	E300.0
2K32010-CCB4	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.50	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K32012
Calibration: 2320001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K32012-ICB1	Ammonia as N	-0.02175	0.110	0.300	mg/L	U	SM4500NH3BG
2K32012-CCB1	Ammonia as N	0.00341	0.110	0.300	mg/L	U	SM4500NH3BG
2K32012-CCB2	Ammonia as N	0.00871	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K32117
Calibration: 2321005
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K32117-ICB1	Nitrate/Nitrite as N	-0.01859	0.0500	0.300	mg/L	U	E353.2
2K32117-CCB1	Nitrate/Nitrite as N	-0.0164	0.0500	0.300	mg/L	U	E353.2
2K32117-CCB2	Nitrate/Nitrite as N	-0.0399	0.0500	0.300	mg/L	U	E353.2

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K32202
Calibration: 2322002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K32202-ICB1	Nitrate/Nitrite as N	-0.03162	0.0500	0.300	mg/L	U	E353.2
2K32202-CCB1	Nitrate/Nitrite as N	-0.0374	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K32405
Calibration: 2314001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K32405-CCB1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.50	mg/L	U	E300.0
2K32405-CCB2	Chloride	-0.0360	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.50	mg/L	U	E300.0
2K32405-CCB3	Chloride	0.0210	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.50	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K32411
Calibration: 2324003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K32411-ICB1	Ammonia as N	-0.01282	0.110	0.300	mg/L	U	SM4500NH3BG
2K32411-CCB1	Ammonia as N	0.00749	0.110	0.300	mg/L	U	SM4500NH3BG
2K32411-CCB2	Ammonia as N	-0.00844	0.110	0.300	mg/L	U	SM4500NH3BG
2K32411-CCB3	Ammonia as N	0.00103	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_069
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 2K32510
Calibration: 2314001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2K32510-CCB1	Sulfate as SO4	0.00	0.330	2.50	mg/L	U	E300.0
2K32510-CCB2	Sulfate as SO4	0.00	0.330	2.50	mg/L	U	E300.0

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500S2CF

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K01007

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfide	1067	ND	918.0	86.0		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1067	936.0	87.7	1.94		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500S2CF

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07015

% Solids:

Source Sample Name: **1211036-15**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfide	1250	ND	1314	105		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1250	1242	99.4	5.63		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500S2CF

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K07015

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfide	1250	ND	1377	110		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1250	1318	105	4.38		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K12002

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	124.7	235.5	99.7		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	234.1	98.4	0.573		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K13033

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	24.72	52.67	101		80 - 120
Sulfate as SO4	27.78	44.29	72.81	103		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	52.82	101	0.280		20	80 - 120
Sulfate as SO4	27.78	73.08	104	0.381		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0850

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K13033

% Solids:

Source Sample Name: **1210292-11**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	7.132	35.32	101		80 - 120
Sulfate as SO4	27.78	28.41	56.67	102		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	35.53	102	0.568		20	80 - 120
Sulfate as SO4	27.78	57.17	104	0.875		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K14017

% Solids:

Source Sample Name: **1211036-15**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	121.1	235.5	103		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS	
						RPD	REC.
Alkalinity, Total (as CACO3)	111.1	233.7	101	0.765		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K14023

% Solids:

Source Sample Name: **1211036-15**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	14.48	43.50	104		80 - 120
Sulfate as SO4	27.78	37.07	65.93	104		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	43.60	105	0.240		20	80 - 120
Sulfate as SO4	27.78	66.16	105	0.357		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K14023

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	7.311	35.94	103		80 - 120
Sulfate as SO4	27.78	28.18	56.84	103		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	36.02	103	0.222		20	80 - 120
Sulfate as SO4	27.78	57.02	104	0.324		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K15006

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	ND	5.177	104		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Ammonia as N	5.000	4.845	96.9	6.63		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K15019

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	100.1	203.2	92.8		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	204.5	94.0	0.660		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K16021

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	ND	5.349	107		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Ammonia as N	5.000	5.165	103	3.50		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K16035

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	ND	2.477	99.1		90 - 110

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	2.539	102	2.47		20	90 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0849

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K16035

% Solids:

Source Sample Name: **1210292-09**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	ND	2.666	107		90 - 110

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	2.691	108	0.915		20	90 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0832

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K17002

% Solids:

Source Sample Name: **1211036-19**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	ND	2.665	107		90 - 110

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	2.642	106	0.848		20	90 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0813

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 2K19001

% Solids:

Source Sample Name: **1211036-15**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	ND	5.273	105		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Ammonia as N	5.000	5.453	109	3.36		20	75 - 125

GW0849

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2K13033
Preparation: pNone
Source Sample Name: GW0849

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K13033-DUP1
Lab Source ID: 1210292-09
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	24.7	24.76	0.158		E300.0
Sulfate as SO4	20	44.3	44.42	0.291		E300.0

GW0850

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2K13033
Preparation: pNone
Source Sample Name: GW0850

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K13033-DUP2
Lab Source ID: 1210292-11
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	7.13	7.129	0.0421		E300.0
Sulfate as SO4	20	28.4	28.51	0.358		E300.0

GW0813

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2K14023
Preparation: pNone
Source Sample Name: GW0813

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14023-DUP1
Lab Source ID: 1211036-15
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	14.5	14.52	0.290		E300.0
Sulfate as SO4	20	37.1	37.19	0.329		E300.0

GW0832

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 2K14023
Preparation: pNone
Source Sample Name: GW0832

SDG: Kirtland_069
Project: Kirtland AFB 2011
Laboratory ID: 2K14023-DUP2
Lab Source ID: 1211036-19
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	7.31	7.318	0.0957		E300.0
Sulfate as SO4	20	28.2	28.30	0.414		E300.0

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K01007	Laboratory ID:	2K01007-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1067	1017	95.3	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K07015	Laboratory ID:	2K07015-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1250	1184	94.7	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K12002	Laboratory ID:	2K12002-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1021	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K13012	Laboratory ID:	2K13012-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1015	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K13033	Laboratory ID:	2K13033-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.902	102	90 - 110
Sulfate as SO4	24.00	23.58	98.3	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K14017	Laboratory ID:	2K14017-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1015	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K14023	Laboratory ID:	2K14023-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.190	108	90 - 110
Sulfate as SO4	24.00	24.06	100	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K15006	Laboratory ID:	2K15006-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.894	97.9	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K15019	Laboratory ID:	2K15019-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1013	101	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K16021	Laboratory ID:	2K16021-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	5.123	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K16035	Laboratory ID:	2K16035-BS1
Preparation:	pNone	Initial/Final:	1 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	14.10	14.22	101	90 - 110

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K17002	Laboratory ID:	2K17002-BS1
Preparation:	pNone	Initial/Final:	1 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	14.10	14.27	101	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K19001	Laboratory ID:	2K19001-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	5.126	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2K19023	Laboratory ID:	2K19023-BS1
Preparation:	pNone	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.200	4.482	107	90 - 110
Sulfate as SO4	21.00	20.74	98.8	90 - 110

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K01007 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0786	1210292-01	11/01/12 07:10	270.00	200.00
GW0787	1210292-03	11/01/12 07:10	270.00	200.00
GW0788	1210292-05	11/01/12 07:10	270.00	200.00
GW0848	1210292-07	11/01/12 07:10	270.00	200.00
GW0849	1210292-09	11/01/12 07:10	270.00	200.00
GW0850	1210292-11	11/01/12 07:10	270.00	200.00
Blank	2K01007-BLK1	11/01/12 07:10	250.00	200.00
LCS	2K01007-BS1	11/01/12 07:10	3.00	250.00
GW0849	2K01007-MS1	11/01/12 07:10	3.00	270.00
GW0849	2K01007-MSD1	11/01/12 07:10	3.00	270.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K07015 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0755	1211036-01	11/07/12 08:27	270.00	200.00
GW0762	1211036-03	11/07/12 08:27	295.00	200.00
GW0763	1211036-05	11/07/12 08:27	270.00	200.00
GW0802	1211036-07	11/07/12 08:27	270.00	200.00
GW0803	1211036-09	11/07/12 08:27	295.00	200.00
GW0804	1211036-11	11/07/12 08:27	270.00	200.00
GW0812	1211036-13	11/07/12 08:27	270.00	200.00
GW0813	1211036-15	11/07/12 08:27	270.00	200.00
GW0814	1211036-17	11/07/12 08:27	295.00	200.00
GW0832	1211036-19	11/07/12 08:27	295.00	200.00
GW0833	1211036-21	11/07/12 08:27	295.00	200.00
Blank	2K07015-BLK1	11/07/12 08:27	250.00	200.00
LCS	2K07015-BS1	11/07/12 08:27	3.00	250.00
GW0813	2K07015-MS1	11/07/12 08:27	3.00	270.00
GW0832	2K07015-MS2	11/07/12 08:27	3.00	295.00
GW0813	2K07015-MSD1	11/07/12 08:27	3.00	270.00
GW0832	2K07015-MSD2	11/07/12 08:27	3.00	295.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K12002 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0848	1210292-07	11/12/12 05:44	25.00	25.00
GW0849	1210292-09	11/12/12 05:44	25.00	25.00
GW0850	1210292-11	11/12/12 05:44	25.00	25.00
Blank	2K12002-BLK1	11/12/12 05:44	25.00	25.00
LCS	2K12002-BS1	11/12/12 05:44	5.00	25.00
GW0849	2K12002-MS1	11/12/12 05:44	22.50	25.00
GW0849	2K12002-MSD1	11/12/12 05:44	22.50	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K13012 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0786	1210292-01	11/13/12 10:29	25.00	25.00
GW0787	1210292-03	11/13/12 10:29	25.00	25.00
GW0788	1210292-05	11/13/12 10:29	25.00	25.00
Blank	2K13012-BLK1	11/13/12 10:29	25.00	25.00
LCS	2K13012-BS1	11/13/12 10:29	5.00	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K13033 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0786	1210292-01	11/13/12 15:58	5.00	5.00
GW0787	1210292-03	11/13/12 15:58	5.00	5.00
GW0788	1210292-05	11/13/12 15:58	5.00	5.00
GW0848	1210292-07	11/13/12 15:58	5.00	5.00
GW0849	1210292-09	11/13/12 15:58	5.00	5.00
GW0850	1210292-11	11/13/12 15:58	5.00	5.00
Blank	2K13033-BLK1	11/13/12 15:58	5.00	5.00
LCS	2K13033-BS1	11/13/12 15:58	5.00	5.00
GW0849	2K13033-DUP1	11/13/12 15:58	5.00	5.00
GW0850	2K13033-DUP2	11/13/12 15:58	5.00	5.00
GW0849	2K13033-MS1	11/13/12 15:58	22.50	25.00
GW0850	2K13033-MS2	11/13/12 15:58	22.50	25.00
GW0849	2K13033-MSD1	11/13/12 15:58	22.50	25.00
GW0850	2K13033-MSD2	11/13/12 15:58	22.50	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K14017 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0802	1211036-07	11/14/12 10:12	25.00	25.00
GW0803	1211036-09	11/14/12 10:12	25.00	25.00
GW0804	1211036-11	11/14/12 10:12	25.00	25.00
GW0812	1211036-13	11/14/12 10:12	25.00	25.00
GW0813	1211036-15	11/14/12 10:12	25.00	25.00
GW0814	1211036-17	11/14/12 10:12	25.00	25.00
Blank	2K14017-BLK1	11/14/12 10:11	25.00	25.00
LCS	2K14017-BS1	11/14/12 10:11	5.00	25.00
GW0813	2K14017-MS1	11/14/12 10:11	22.50	25.00
GW0813	2K14017-MSD1	11/14/12 10:11	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K14023 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0755	1211036-01	11/14/12 12:30	5.00	5.00
GW0762	1211036-03	11/14/12 12:30	5.00	5.00
GW0763	1211036-05	11/14/12 12:30	5.00	5.00
GW0802	1211036-07	11/14/12 12:30	5.00	5.00
GW0803	1211036-09	11/14/12 12:30	5.00	5.00
GW0804	1211036-11	11/14/12 12:30	5.00	5.00
GW0812	1211036-13	11/14/12 12:30	5.00	5.00
GW0813	1211036-15	11/14/12 12:30	5.00	5.00
GW0814	1211036-17	11/14/12 12:30	5.00	5.00
GW0832	1211036-19	11/14/12 12:30	5.00	5.00
GW0833	1211036-21	11/14/12 12:30	5.00	5.00
Blank	2K14023-BLK1	11/14/12 12:30	5.00	5.00
LCS	2K14023-BS1	11/14/12 12:30	5.00	5.00
GW0813	2K14023-DUP1	11/14/12 12:30	5.00	5.00
GW0832	2K14023-DUP2	11/14/12 12:30	5.00	5.00
GW0813	2K14023-MS1	11/14/12 12:30	22.50	25.00
GW0832	2K14023-MS2	11/14/12 12:30	22.50	25.00
GW0813	2K14023-MSD1	11/14/12 12:30	22.50	25.00
GW0832	2K14023-MSD2	11/14/12 12:30	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K15006 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0786	1210292-01	11/15/12 07:52	100.00	100.00
GW0787	1210292-03	11/15/12 07:52	100.00	100.00
GW0788	1210292-05	11/15/12 07:52	100.00	100.00
GW0848	1210292-07	11/15/12 07:52	100.00	100.00
GW0849	1210292-09	11/15/12 07:52	100.00	100.00
GW0850	1210292-11	11/15/12 07:52	100.00	100.00
Blank	2K15006-BLK1	11/15/12 07:52	100.00	100.00
LCS	2K15006-BS1	11/15/12 07:52	100.00	100.00
GW0849	2K15006-MS1	11/15/12 07:52	100.00	100.00
GW0849	2K15006-MSD1	11/15/12 07:52	100.00	100.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K15019 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0755	1211036-01	11/15/12 10:02	25.00	25.00
GW0762	1211036-03	11/15/12 10:02	25.00	25.00
GW0763	1211036-05	11/15/12 10:02	25.00	25.00
GW0832	1211036-19	11/15/12 10:02	25.00	25.00
GW0833	1211036-21	11/15/12 10:02	25.00	25.00
Blank	2K15019-BLK1	11/15/12 10:02	25.00	25.00
LCS	2K15019-BS1	11/15/12 10:02	5.00	25.00
GW0832	2K15019-MS1	11/15/12 10:02	22.50	25.00
GW0832	2K15019-MSD1	11/15/12 10:02	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K16021 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0755	1211036-01	11/16/12 09:38	100.00	100.00
GW0762	1211036-03	11/16/12 09:38	100.00	100.00
GW0763	1211036-05	11/16/12 09:38	100.00	100.00
GW0802	1211036-07	11/16/12 09:38	100.00	100.00
GW0803	1211036-09	11/16/12 09:38	100.00	100.00
GW0804	1211036-11	11/16/12 09:38	100.00	100.00
GW0812	1211036-13	11/16/12 09:38	100.00	100.00
GW0814	1211036-17	11/16/12 09:38	100.00	100.00
GW0832	1211036-19	11/16/12 09:38	100.00	100.00
GW0833	1211036-21	11/16/12 09:38	100.00	100.00
Blank	2K16021-BLK1	11/16/12 09:38	100.00	100.00
LCS	2K16021-BS1	11/16/12 09:38	100.00	100.00
GW0832	2K16021-MS1	11/16/12 09:38	100.00	100.00
GW0832	2K16021-MSD1	11/16/12 09:38	100.00	100.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K16035 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0786	1210292-01	11/16/12 13:53	4.00	20.00
GW0787	1210292-03	11/16/12 13:53	4.00	20.00
GW0788	1210292-05	11/16/12 13:53	4.00	20.00
GW0848	1210292-07	11/16/12 13:53	4.00	20.00
GW0849	1210292-09	11/16/12 13:53	4.00	20.00
GW0850	1210292-11	11/16/12 13:53	4.00	20.00
GW0755	1211036-01	11/16/12 13:53	4.00	20.00
GW0762	1211036-03	11/16/12 13:53	4.00	20.00
GW0763	1211036-05	11/16/12 13:53	4.00	20.00
GW0802	1211036-07	11/16/12 13:53	4.00	20.00
GW0803	1211036-09	11/16/12 13:53	4.00	20.00
GW0804	1211036-11	11/16/12 13:53	4.00	20.00
GW0812	1211036-13	11/16/12 13:53	4.00	20.00
GW0813	1211036-15	11/16/12 13:53	4.00	20.00
GW0814	1211036-17	11/16/12 13:53	4.00	20.00
GW0833	1211036-21	11/16/12 13:53	4.00	20.00
Blank	2K16035-BLK1	11/16/12 13:53	20.00	20.00
LCS	2K16035-BS1	11/16/12 13:53	1.00	20.00
GW0849	2K16035-MS1	11/16/12 13:53	4.00	20.00
GW0849	2K16035-MS3	11/16/12 13:53	4.00	20.00
GW0849	2K16035-MSD1	11/16/12 13:53	4.00	20.00
GW0849	2K16035-MSD3	11/16/12 13:53	4.00	20.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K17002 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0832	1211036-19	11/17/12 09:30	4.00	20.00
Blank	2K17002-BLK1	11/17/12 09:30	20.00	20.00
LCS	2K17002-BS1	11/17/12 09:30	1.00	20.00
GW0832	2K17002-MS1	11/17/12 09:30	4.00	20.00
GW0832	2K17002-MSD1	11/17/12 09:30	4.00	20.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K19001 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0813	1211036-15	11/19/12 05:36	100.00	100.00
Blank	2K19001-BLK1	11/19/12 05:36	100.00	100.00
LCS	2K19001-BS1	11/19/12 05:36	100.00	100.00
GW0813	2K19001-MS1	11/19/12 05:36	100.00	100.00
GW0813	2K19001-MSD1	11/19/12 05:36	100.00	100.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_069

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 2K19023 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0802	1211036-07RE1	11/14/12 12:30	5.00	5.00
Blank	2K19023-BLK1	11/19/12 10:18	5.00	5.00
LCS	2K19023-BS1	11/19/12 10:18	5.00	5.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2K12002-BS1	111212-002	11/12/12 09:54
Blank	2K12002-BLK1	111212-003	11/12/12 10:00
GW0849	2K12002-MS1	111212-004	11/12/12 10:06
GW0849	2K12002-MSD1	111212-005	11/12/12 10:17
LCS	2K13012-BS1	111312-002	11/13/12 12:00
Blank	2K13012-BLK1	111312-003	11/13/12 12:03
LCS	2K14017-BS1	111412-002	11/14/12 11:24
Blank	2K14017-BLK1	111412-003	11/14/12 11:28
GW0813	2K14017-MS1	111412-004	11/14/12 11:29
GW0813	2K14017-MSD1	111412-005	11/14/12 11:33
LCS	2K15019-BS1	111512-002	11/15/12 11:47
Blank	2K15019-BLK1	111512-003	11/15/12 11:55
GW0832	2K15019-MS1	111512-004	11/15/12 11:57
GW0832	2K15019-MSD1	111512-005	11/15/12 12:04

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_069

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	2K01007-BS1	110112-001	11/01/12 14:30
Blank	2K01007-BLK1	110112-002	11/01/12 14:30
GW0849	2K01007-MS1	110112-019	11/01/12 14:39
GW0849	2K01007-MSD1	110112-020	11/01/12 14:40
LCS	2K07015-BS1	110712-001	11/07/12 10:30
Blank	2K07015-BLK1	110712-002	11/07/12 10:31
GW0813	2K07015-MS1	110712-011	11/07/12 10:40
GW0813	2K07015-MSD1	110712-012	11/07/12 10:41
GW0832	2K07015-MS2	110712-015	11/07/12 10:44
GW0832	2K07015-MSD2	110712-016	11/07/12 10:45

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K31404	Instrument:	WC-IC
Calibration:	2314001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K31404-CAL1	110612-003	11/06/12 08:58
Cal Standard	2K31404-CAL2	110612-004	11/06/12 09:15
Cal Standard	2K31404-CAL3	110612-005	11/06/12 09:32
Cal Standard	2K31404-CAL4	110612-006	11/06/12 09:50
Cal Standard	2K31404-CAL5	110612-007	11/06/12 10:07
Cal Standard	2K31404-CAL6	110612-008	11/06/12 10:25
Cal Standard	2K31404-CAL7	110612-009	11/06/12 10:42
Cal Standard	2K31404-CAL8	110612-010	11/06/12 10:59
Initial Cal Check	2K31404-ICV1	110612-011	11/06/12 11:17
Initial Cal Blank	2K31404-ICB1	110612-012	11/06/12 11:34
Calibration Blank	2K31404-CCB1	110612-017	11/06/12 13:01

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32010	Instrument:	WC-IC
Calibration:	2314001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32010-CCV1	111312-003	11/13/12 17:35
Calibration Blank	2K32010-CCB1	111312-004	11/13/12 17:53
Instrument RL Check	2K32010-CRL1	111312-005	11/13/12 18:10
Instrument RL Check	2K32010-CRL3	111312-007	11/13/12 18:45
LCS	2K13033-BS1	111312-008	11/13/12 19:02
Blank	2K13033-BLK1	111312-010	11/13/12 19:37
GW0849	1210292-09	111312-017	11/13/12 21:39
GW0849	2K13033-MS1	111312-018	11/13/12 21:57
GW0849	2K13033-MSD1	111312-019	11/13/12 22:14
GW0849	2K13033-DUP1	111312-020	11/13/12 22:32
Calibration Check	2K32010-CCV2	111312-021	11/13/12 22:49
Calibration Blank	2K32010-CCB2	111312-022	11/13/12 23:06
GW0786	1210292-01	111312-026	11/14/12 00:16
GW0787	1210292-03	111312-027	11/14/12 00:34
GW0788	1210292-05	111312-028	11/14/12 00:51
GW0850	1210292-11	111312-029	11/14/12 01:09
GW0850	2K13033-MS2	111312-030	11/14/12 01:26
GW0850	2K13033-MSD2	111312-031	11/14/12 01:44
GW0850	2K13033-DUP2	111312-032	11/14/12 02:01
Calibration Check	2K32010-CCV3	111312-033	11/14/12 02:18
Calibration Blank	2K32010-CCB3	111312-034	11/14/12 02:36
GW0848	1210292-07	111312-035	11/14/12 02:53
Calibration Check	2K32010-CCV4	111312-038	11/14/12 03:46
Calibration Blank	2K32010-CCB4	111312-039	11/14/12 04:03

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32012	Instrument:	WC-Lachat
Calibration:	2320001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K32012-CAL1	M_11-15-2012_12-53-34PM-0	11/15/12 12:54
Cal Standard	2K32012-CAL2	M_11-15-2012_12-53-34PM-0	11/15/12 12:55
Cal Standard	2K32012-CAL3	M_11-15-2012_12-53-34PM-0	11/15/12 12:56
Cal Standard	2K32012-CAL4	M_11-15-2012_12-53-34PM-0	11/15/12 12:57
Cal Standard	2K32012-CAL5	M_11-15-2012_12-53-34PM-0	11/15/12 12:58
Cal Standard	2K32012-CAL6	M_11-15-2012_12-53-34PM-0	11/15/12 12:59
Cal Standard	2K32012-CAL7	M_11-15-2012_12-53-34PM-0	11/15/12 13:00
Cal Standard	2K32012-CAL8	M_11-15-2012_12-53-34PM-0	11/15/12 13:01
Initial Cal Check	2K32012-ICV1	M_11-15-2012_12-53-34PM-0	11/15/12 13:02
Initial Cal Blank	2K32012-ICB1	M_11-15-2012_12-53-34PM-0	11/15/12 13:03
Blank	2K15006-BLK1	M_11-15-2012_12-53-34PM-0	11/15/12 13:04
LCS	2K15006-BS1	M_11-15-2012_12-53-34PM-0	11/15/12 13:05
GW0786	1210292-01	M_11-15-2012_12-53-34PM-0	11/15/12 13:12
GW0787	1210292-03	M_11-15-2012_12-53-34PM-0	11/15/12 13:13
GW0788	1210292-05	M_11-15-2012_12-53-34PM-0	11/15/12 13:14
Calibration Check	2K32012-CCV1	M_11-15-2012_12-53-34PM-0	11/15/12 13:15
Calibration Blank	2K32012-CCB1	M_11-15-2012_12-53-34PM-0	11/15/12 13:16
GW0848	1210292-07	M_11-15-2012_12-53-34PM-0	11/15/12 13:17
GW0849	1210292-09	M_11-15-2012_12-53-34PM-0	11/15/12 13:18
GW0849	2K15006-MS1	M_11-15-2012_12-53-34PM-0	11/15/12 13:19
GW0849	2K15006-MSD1	M_11-15-2012_12-53-34PM-0	11/15/12 13:20
GW0850	1210292-11	M_11-15-2012_12-53-34PM-0	11/15/12 13:21
Calibration Check	2K32012-CCV2	M_11-15-2012_12-53-34PM-0	11/15/12 13:29
Calibration Blank	2K32012-CCB2	M_11-15-2012_12-53-34PM-0	11/15/12 13:30

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32117	Instrument:	WC-Lachat
Calibration:	2321005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K32117-CAL2	M_11-16-2012_02-55-23PM-0	11/16/12 14:58
Cal Standard	2K32117-CAL3	M_11-16-2012_02-55-23PM-0	11/16/12 15:00
Cal Standard	2K32117-CAL4	M_11-16-2012_02-55-23PM-0	11/16/12 15:01
Cal Standard	2K32117-CAL5	M_11-16-2012_02-55-23PM-0	11/16/12 15:03
Cal Standard	2K32117-CAL6	M_11-16-2012_02-55-23PM-0	11/16/12 15:04
Cal Standard	2K32117-CAL7	M_11-16-2012_02-55-23PM-0	11/16/12 15:06
Cal Standard	2K32117-CAL8	M_11-16-2012_02-55-23PM-0	11/16/12 15:07
Initial Cal Check	2K32117-ICV1	M_11-16-2012_02-55-23PM-0	11/16/12 15:09
Initial Cal Blank	2K32117-ICB1	M_11-16-2012_02-55-23PM-0	11/16/12 15:10
Blank	2K16035-BLK1	M_11-16-2012_02-55-23PM-0	11/16/12 15:13
LCS	2K16035-BS1	M_11-16-2012_02-55-23PM-0	11/16/12 15:14
GW0786	1210292-01	M_11-16-2012_02-55-23PM-0	11/16/12 15:16
GW0787	1210292-03	M_11-16-2012_02-55-23PM-0	11/16/12 15:17
GW0788	1210292-05	M_11-16-2012_02-55-23PM-0	11/16/12 15:19
GW0848	1210292-07	M_11-16-2012_02-55-23PM-0	11/16/12 15:20
GW0849	1210292-09	M_11-16-2012_02-55-23PM-0	11/16/12 15:22
GW0849	2K16035-MS1	M_11-16-2012_02-55-23PM-0	11/16/12 15:23
GW0849	2K16035-MSD1	M_11-16-2012_02-55-23PM-0	11/16/12 15:25
GW0850	1210292-11	M_11-16-2012_02-55-23PM-0	11/16/12 15:26
GW0755	1211036-01	M_11-16-2012_02-55-23PM-0	11/16/12 15:27
GW0762	1211036-03	M_11-16-2012_02-55-23PM-0	11/16/12 15:29
GW0763	1211036-05	M_11-16-2012_02-55-23PM-0	11/16/12 15:30
GW0802	1211036-07	M_11-16-2012_02-55-23PM-0	11/16/12 15:32
Calibration Check	2K32117-CCV1	M_11-16-2012_02-55-23PM-0	11/16/12 15:33
Calibration Blank	2K32117-CCB1	M_11-16-2012_02-55-23PM-0	11/16/12 15:35
GW0803	1211036-09	M_11-16-2012_02-55-23PM-0	11/16/12 15:36
GW0804	1211036-11	M_11-16-2012_02-55-23PM-0	11/16/12 15:38
GW0812	1211036-13	M_11-16-2012_02-55-23PM-0	11/16/12 15:39
GW0813	1211036-15	M_11-16-2012_02-55-23PM-0	11/16/12 15:41
GW0814	1211036-17	M_11-16-2012_02-55-23PM-0	11/16/12 15:45
GW0833	1211036-21	M_11-16-2012_02-55-23PM-0	11/16/12 15:46
GW0849	2K16035-MS3	M_11-16-2012_02-55-23PM-0	11/16/12 15:54

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32117	Instrument:	WC-Lachat
Calibration:	2321005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0849	2K16035-MSD3	M_11-16-2012_02-55-23PM-0	11/16/12 15:55
Calibration Check	2K32117-CCV2	M_11-16-2012_02-55-23PM-0	11/16/12 15:58
Calibration Blank	2K32117-CCB2	M_11-16-2012_02-55-23PM-0	11/16/12 15:59

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32202	Instrument:	WC-Lachat
Calibration:	2322002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K32202-CAL1	M_11-17-2012_12-37-48PM-0	11/17/12 12:39
Cal Standard	2K32202-CAL2	M_11-17-2012_12-37-48PM-0	11/17/12 12:41
Cal Standard	2K32202-CAL3	M_11-17-2012_12-37-48PM-0	11/17/12 12:42
Cal Standard	2K32202-CAL4	M_11-17-2012_12-37-48PM-0	11/17/12 12:44
Cal Standard	2K32202-CAL5	M_11-17-2012_12-37-48PM-0	11/17/12 12:45
Cal Standard	2K32202-CAL6	M_11-17-2012_12-37-48PM-0	11/17/12 12:47
Cal Standard	2K32202-CAL7	M_11-17-2012_12-37-48PM-0	11/17/12 12:48
Cal Standard	2K32202-CAL8	M_11-17-2012_12-37-48PM-0	11/17/12 12:49
Initial Cal Check	2K32202-ICV1	M_11-17-2012_12-37-48PM-0	11/17/12 12:51
Initial Cal Blank	2K32202-ICB1	M_11-17-2012_12-37-48PM-0	11/17/12 12:52
Blank	2K17002-BLK1	M_11-17-2012_12-37-48PM-0	11/17/12 12:55
LCS	2K17002-BS1	M_11-17-2012_12-37-48PM-0	11/17/12 12:57
GW0832	1211036-19	M_11-17-2012_12-37-48PM-0	11/17/12 12:58
GW0832	2K17002-MS1	M_11-17-2012_12-37-48PM-0	11/17/12 13:00
GW0832	2K17002-MSD1	M_11-17-2012_12-37-48PM-0	11/17/12 13:01
Calibration Check	2K32202-CCV1	M_11-17-2012_12-37-48PM-0	11/17/12 13:18
Calibration Blank	2K32202-CCB1	M_11-17-2012_12-37-48PM-0	11/17/12 13:20

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32405	Instrument:	WC-IC
Calibration:	2314001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32405-CCV1	111412-003	11/14/12 15:01
Calibration Blank	2K32405-CCB1	111412-004	11/14/12 15:19
Instrument RL Check	2K32405-CRL1	111412-005	11/14/12 15:36
Instrument RL Check	2K32405-CRL3	111412-007	11/14/12 16:11
LCS	2K14023-BS1	111412-008	11/14/12 16:28
Blank	2K14023-BLK1	111412-010	11/14/12 17:03
GW0755	1211036-01	111412-013	11/14/12 17:55
GW0762	1211036-03	111412-014	11/14/12 18:13
GW0763	1211036-05	111412-015	11/14/12 18:30
GW0802	1211036-07	111412-016	11/14/12 18:48
GW0813	1211036-15	111412-017	11/14/12 19:05
GW0813	2K14023-MS1	111412-018	11/14/12 19:22
GW0813	2K14023-MSD1	111412-019	11/14/12 19:40
GW0813	2K14023-DUP1	111412-020	11/14/12 19:57
Calibration Check	2K32405-CCV2	111412-021	11/14/12 20:15
Calibration Blank	2K32405-CCB2	111412-022	11/14/12 20:32
GW0803	1211036-09	111412-023	11/14/12 20:50
GW0804	1211036-11	111412-024	11/14/12 21:07
GW0812	1211036-13	111412-025	11/14/12 21:24
GW0814	1211036-17	111412-026	11/14/12 21:42
GW0833	1211036-21	111412-027	11/14/12 21:59
GW0832	1211036-19	111412-029	11/14/12 22:34
GW0832	2K14023-MS2	111412-030	11/14/12 22:51
GW0832	2K14023-MSD2	111412-031	11/14/12 23:09
GW0832	2K14023-DUP2	111412-032	11/14/12 23:26
Calibration Check	2K32405-CCV3	111412-033	11/14/12 23:44
Calibration Blank	2K32405-CCB3	111412-034	11/15/12 00:01

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32411	Instrument:	WC-Lachat
Calibration:	2324003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2K32411-CAL1	M_11-19-2012_12-05-36PM-0	11/19/12 12:06
Cal Standard	2K32411-CAL2	M_11-19-2012_12-05-36PM-0	11/19/12 12:07
Cal Standard	2K32411-CAL3	M_11-19-2012_12-05-36PM-0	11/19/12 12:08
Cal Standard	2K32411-CAL4	M_11-19-2012_12-05-36PM-0	11/19/12 12:09
Cal Standard	2K32411-CAL5	M_11-19-2012_12-05-36PM-0	11/19/12 12:10
Cal Standard	2K32411-CAL6	M_11-19-2012_12-05-36PM-0	11/19/12 12:11
Cal Standard	2K32411-CAL7	M_11-19-2012_12-05-36PM-0	11/19/12 12:12
Cal Standard	2K32411-CAL8	M_11-19-2012_12-05-36PM-0	11/19/12 12:13
Initial Cal Check	2K32411-ICV1	M_11-19-2012_12-05-36PM-0	11/19/12 12:14
Initial Cal Blank	2K32411-ICB1	M_11-19-2012_12-05-36PM-0	11/19/12 12:15
Blank	2K16021-BLK1	M_11-19-2012_12-05-36PM-0	11/19/12 12:16
LCS	2K16021-BS1	M_11-19-2012_12-05-36PM-0	11/19/12 12:17
GW0755	1211036-01	M_11-19-2012_12-05-36PM-0	11/19/12 12:18
GW0762	1211036-03	M_11-19-2012_12-05-36PM-0	11/19/12 12:19
GW0763	1211036-05	M_11-19-2012_12-05-36PM-0	11/19/12 12:20
GW0802	1211036-07	M_11-19-2012_12-05-36PM-0	11/19/12 12:21
GW0803	1211036-09	M_11-19-2012_12-05-36PM-0	11/19/12 12:22
GW0804	1211036-11	M_11-19-2012_12-05-36PM-0	11/19/12 12:23
GW0812	1211036-13	M_11-19-2012_12-05-36PM-0	11/19/12 12:24
GW0814	1211036-17	M_11-19-2012_12-05-36PM-0	11/19/12 12:24
GW0832	1211036-19	M_11-19-2012_12-05-36PM-0	11/19/12 12:25
GW0832	2K16021-MS1	M_11-19-2012_12-05-36PM-0	11/19/12 12:26
GW0832	2K16021-MSD1	M_11-19-2012_12-05-36PM-0	11/19/12 12:27
GW0833	1211036-21	M_11-19-2012_12-05-36PM-0	11/19/12 12:28
Calibration Check	2K32411-CCV1	M_11-19-2012_12-05-36PM-0	11/19/12 12:29
Calibration Blank	2K32411-CCB1	M_11-19-2012_12-05-36PM-0	11/19/12 12:30
Calibration Check	2K32411-CCV2	M_11-19-2012_12-05-36PM-0	11/19/12 12:41
Calibration Blank	2K32411-CCB2	M_11-19-2012_12-05-36PM-0	11/19/12 12:42
LCS	2K19001-BS1	M_11-19-2012_12-05-36PM-0	11/19/12 12:43
Blank	2K19001-BLK1	M_11-19-2012_12-05-36PM-0	11/19/12 12:43
GW0813	1211036-15	M_11-19-2012_12-05-36PM-0	11/19/12 12:44
GW0813	2K19001-MS1	M_11-19-2012_12-05-36PM-0	11/19/12 12:45

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32411	Instrument:	WC-Lachat
Calibration:	2324003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0813	2K19001-MSD1	M_11-19-2012_12-05-36PM-0	11/19/12 12:46
Calibration Check	2K32411-CCV3	M_11-19-2012_12-05-36PM-0	11/19/12 12:58
Calibration Blank	2K32411-CCB3	M_11-19-2012_12-05-36PM-0	11/19/12 12:59

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_069
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2K32510	Instrument:	WC-IC
Calibration:	2314001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2K32510-CCV1	111912-003	11/19/12 16:29
Calibration Blank	2K32510-CCB1	111912-004	11/19/12 16:47
Instrument RL Check	2K32510-CRL3	111912-007	11/19/12 17:39
LCS	2K19023-BS1	111912-009	11/19/12 18:14
Blank	2K19023-BLK1	111912-011	11/19/12 18:48
GW0802	1211036-07RE1	111912-012	11/19/12 19:06
Calibration Check	2K32510-CCV2	111912-022	11/19/12 22:00
Calibration Blank	2K32510-CCB2	111912-023	11/19/12 22:17

PREPARATION BENCH SHEET

2K01007

Empirical Laboratories, LLC

Printed: 11/18/2012 2:09:54PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210274-01	M	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210274-03	M	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210282-45	I	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210282-47	I	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210282-51	I	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210282-66	I	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210282-78	I	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210282-83	I	WC_SULFIDE_4500S2CF	11/01/2012	295	200					NA	
1210282-87	I	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210282-89	I	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210282-91	I	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210292-01	M	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210292-03	M	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210292-05	M	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210292-07	M	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210292-09	AM	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	MS/MSD
1210292-11	M	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210294-01	M	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
1210294-03	M	WC_SULFIDE_4500S2CF	11/01/2012	270	200					NA	
2K01007-BLK1		QC	11/01/2012	250	200					NA	
2K01007-BS1		QC	11/01/2012	3	250	12K0026		3000		NA	
2K01007-MS1		QC	11/01/2012	3	270	12K0026	1210292-09	3000		NA	

PREPARATION BENCH SHEET

2K01007

Empirical Laboratories, LLC

Printed: 11/18/2012 2:09:54PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K01007-MSD1		QC	11/01/2012	3	270	12K0026	1210292-09	3000		NA	

Reagents Used:

Standard	Description
11L0688	Sulfide Thyodene Indicator
12D0082	Sulfide Sodium Hydroxide Solution 6N
12D0111	Sulfide 6M HCl Reagent
12J0849	Sulfide 0.025N Sodium Thiosulfate Reagent
12J0852	Sulfide 0.025N Iodine Solution Reagent

PREPARATION BENCH SHEET

2K07015

Empirical Laboratories, LLC

Printed: 11/27/2012 3:04:17PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-01	M	WC_SULFIDE_4500S2CF	11/07/2012	270	200					NA	
1211036-03	M	WC_SULFIDE_4500S2CF	11/07/2012	295	200					NA	
1211036-05	M	WC_SULFIDE_4500S2CF	11/07/2012	270	200					NA	
1211036-07	M	WC_SULFIDE_4500S2CF	11/07/2012	270	200					NA	
1211036-09	M	WC_SULFIDE_4500S2CF	11/07/2012	295	200					NA	
1211036-11	M	WC_SULFIDE_4500S2CF	11/07/2012	270	200					NA	
1211036-13	M	WC_SULFIDE_4500S2CF	11/07/2012	270	200					NA	
1211036-15	AM	WC_SULFIDE_4500S2CF	11/07/2012	270	200					NA	MS/MSD
1211036-17	M	WC_SULFIDE_4500S2CF	11/07/2012	295	200					NA	
1211036-19	AM	WC_SULFIDE_4500S2CF	11/07/2012	295	200					NA	MS/MSD
1211036-21	M	WC_SULFIDE_4500S2CF	11/07/2012	295	200					NA	
2K07015-BLK1		QC	11/07/2012	250	200					NA	
2K07015-BS1		QC	11/07/2012	3	250	12K0659		3000		NA	
2K07015-MS1		QC	11/07/2012	3	270	12K0659	1211036-15	3000		NA	
2K07015-MS2		QC	11/07/2012	3	295	12K0659	1211036-19	3000		NA	
2K07015-MSD1		QC	11/07/2012	3	270	12K0659	1211036-15	3000		NA	
2K07015-MSD2		QC	11/07/2012	3	295	12K0659	1211036-19	3000		NA	

PREPARATION BENCH SHEET

2K07015

Empirical Laboratories, LLC

Printed: 11/27/2012 3:04:17PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description
11L0688	Sulfide Thyodene Indicator
12D0082	Sulfide Sodium Hydroxide Solution 6N
12D0111	Sulfide 6M HCl Reagent
12J0849	Sulfide 0.025N Sodium Thiosulfate Reagent
12J0852	Sulfide 0.025N Iodine Solution Reagent

PREPARATION BENCH SHEET

2K12002

Empirical Laboratories, LLC

Printed: 11/20/2012 12:44:30PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210282-45	F	WC_ALKALINITY_2320B	11/12/2012	25	25					NA	
1210282-47	F	WC_ALKALINITY_2320B	11/12/2012	25	25					NA	
1210282-51	F	WC_ALKALINITY_2320B	11/12/2012	25	25					NA	
1210282-66	F	WC_ALKALINITY_2320B	11/12/2012	25	25					NA	
1210282-78	F	WC_ALKALINITY_2320B	11/12/2012	25	25					NA	
1210282-83	J	WC_ALKALINITY_2320B	11/12/2012	25	25					NA	
1210282-87	F	WC_ALKALINITY_2320B	11/12/2012	25	25					NA	
1210282-89	F	WC_ALKALINITY_2320B	11/12/2012	25	25					NA	
1210282-91	F	WC_ALKALINITY_2320B	11/12/2012	25	25					NA	
1210292-07	J	WC_ALKALINITY_2320B	11/12/2012	25	25					NA	carb/bicarb
1210292-09	-	WC_ALKALINITY_2320B	11/12/2012	25	25					NA	MS/MSD, carb/bicarb
1210292-11	J	WC_ALKALINITY_2320B	11/12/2012	25	25					NA	carb/bicarb
1211047-01	A	WC_ALKALINITY_2320B	11/12/2012	25	25					NA	
1211047-02	A	WC_ALKALINITY_2320B	11/12/2012	25	25					NA	
2K12002-BLK1		QC	11/12/2012	25	25					NA	
2K12002-BS1		QC	11/12/2012	5	25	12E0258		5000		NA	
2K12002-MS1		QC	11/12/2012	22.5	25	12E0258	1210292-09	2500		NA	
2K12002-MSD1		QC	11/12/2012	22.5	25	12E0258	1210292-09	2500		NA	

PREPARATION BENCH SHEET

2K12002

Empirical Laboratories, LLC

Printed: 11/20/2012 12:44:30PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments

Reagents Used:

Standard	Description
12B0874	pH 4.0 Buffer
12E0017	Alkalinity Sulfuric Acid Solution 0.020 N
12J0158	pH 7.0 Buffer Yellow

PREPARATION BENCH SHEET

2K13012

Empirical Laboratories, LLC

Printed: 11/18/2012 2:15:20PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210292-01	J	WC_ALKALINITY_2320B	11/13/2012	25	25					NA	carb/bicarb
1210292-03	J	WC_ALKALINITY_2320B	11/13/2012	25	25					NA	carb/bicarb
1210292-05	J	WC_ALKALINITY_2320B	11/13/2012	25	25					NA	carb/bicarb
1211075-02	J	WC_ALKALINITY_2320B	11/13/2012	25	25					NA	carb/bicarb
2K13012-BLK1		QC	11/13/2012	25	25					NA	
2K13012-BS1		QC	11/13/2012	5	25	12E0258		5000		NA	

Reagents Used:

Standard	Description
12B0874	pH 4.0 Buffer
12E0017	Alkalinity Sulfuric Acid Solution 0.020 N
12J0158	pH 7.0 Buffer Yellow

PREPARATION BENCH SHEET

2K13033

Empirical Laboratories, LLC

Printed: 11/27/2012 3:06:26PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210292-01	J	WC_ANIONS_300.0 (Regular)	11/13/2012	5	5					NA	Cl, SO4
1210292-03	J	WC_ANIONS_300.0 (Regular)	11/13/2012	5	5					NA	Cl, SO4
1210292-05	J	WC_ANIONS_300.0 (Regular)	11/13/2012	5	5					NA	Cl, SO4
1210292-07	J	WC_ANIONS_300.0 (Regular)	11/13/2012	5	5					NA	Cl, SO4
1210292-09	AD	WC_ANIONS_300.0 (Short Hol	11/13/2012	5	5					NA	Added for BatchQC in: 2K13033
1210292-09	AD	WC_ANIONS_9056 (Regular)	11/13/2012	5	5					NA	Added for BatchQC in: 2K13033
1210292-09	AD	WC_ANIONS_300.0 (Regular)	11/13/2012	5	5					NA	MS/MSD, Cl, SO4
1210292-11	J	WC_ANIONS_9056 (Regular)	11/13/2012	5	5					NA	Added for BatchQC in: 2K13033
1210292-11	J	WC_ANIONS_300.0 (Regular)	11/13/2012	5	5					NA	Cl, SO4
1210292-11	J	WC_ANIONS_300.0 (Short Hol	11/13/2012	5	5					NA	Added for BatchQC in: 2K13033
1211088-02RE1	G	WC_ANIONS_9056 (Regular)	11/09/2012	5	5					NA	Cl & SO4
1211088-04RE1	G	WC_ANIONS_9056 (Regular)	11/09/2012	5	5					NA	Cl & SO4
1211116-01	A	WC_ANIONS_300.0 (Short Hol	11/13/2012	5	5					NA	see version
1211116-02	A	WC_ANIONS_300.0 (Short Hol	11/13/2012	5	5					NA	see version
1211118-04	B	WC_ANIONS_300.0 (Short Hol	11/13/2012	5	5					NA	see versions
1211124-01	A	WC_ANIONS_300.0 (Short Hol	11/13/2012	5	5					NA	calculation
1211124-02	A	WC_ANIONS_300.0 (Short Hol	11/13/2012	5	5					NA	calculation
1211124-03	A	WC_ANIONS_300.0 (Short Hol	11/13/2012	5	5					NA	calculation
1211124-04	A	WC_ANIONS_300.0 (Short Hol	11/13/2012	5	5					NA	calculation
1211125-01	A	WC_ANIONS_300.0 (Short Hol	11/13/2012	5	5					NA	calculation
1211126-01	A	WC_ANIONS_300.0 (Short Hol	11/13/2012	5	5					NA	calculation
2K13033-BLK1		QC	11/13/2012	5	5					NA	

PREPARATION BENCH SHEET

2K13033

Empirical Laboratories, LLC

Printed: 11/27/2012 3:06:26PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K13033-BS1		QC	11/13/2012	5	5	12J0971		5000		NA	
2K13033-BS2		QC	11/13/2012	5	5	12K0289		5000		NA	
2K13033-DUP1		QC	11/13/2012	5	5		1210292-09			NA	
2K13033-DUP2		QC	11/13/2012	5	5		1210292-11			NA	
2K13033-MS1		QC	11/13/2012	22.5	25	12J0966	1210292-09	2500		NA	
2K13033-MS2		QC	11/13/2012	22.5	25	12J0966	1210292-11	2500		NA	
2K13033-MSD1		QC	11/13/2012	22.5	25	12J0966	1210292-09	2500		NA	
2K13033-MSD2		QC	11/13/2012	22.5	25	12J0966	1210292-11	2500		NA	

Reagents Used:

Standard	Description

PREPARATION BENCH SHEET

2K14017

Empirical Laboratories, LLC

Printed: 11/27/2012 3:07:25PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-07	J	WC_ALKALINITY_2320B	11/14/2012	25	25					NA	carb/bicarb
1211036-09	J	WC_ALKALINITY_2320B	11/14/2012	25	25					NA	carb/bicarb
1211036-11	J	WC_ALKALINITY_2320B	11/14/2012	25	25					NA	carb/bicarb
1211036-13	J	WC_ALKALINITY_2320B	11/14/2012	25	25					NA	carb/bicarb
1211036-15	AD	WC_ALKALINITY_2320B	11/14/2012	25	25					NA	MS/MSD, carb/bicarb
1211036-17	J	WC_ALKALINITY_2320B	11/14/2012	25	25					NA	carb/bicarb
2K14017-BLK1		QC	11/14/2012	25	25					NA	
2K14017-BS1		QC	11/14/2012	5	25	12E0258		5000		NA	
2K14017-MS1		QC	11/14/2012	22.5	25	12E0258	1211036-15	2500		NA	
2K14017-MSD1		QC	11/14/2012	22.5	25	12E0258	1211036-15	2500		NA	

Reagents Used:

Standard	Description
12B0874	pH 4.0 Buffer
12E0017	Alkalinity Sulfuric Acid Solution 0.020 N
12J0158	pH 7.0 Buffer Yellow

PREPARATION BENCH SHEET

2K14023

Empirical Laboratories, LLC

Printed: 11/27/2012 3:08:36PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-01	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-03	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-05	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-07	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-09	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-11	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-13	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-15	AD	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	MS/MSD, Cl, SO4
1211036-15	AD	WC_ANIONS_300.0 (Short Hol	11/14/2012	5	5					NA	Added for BatchQC in: 2K14023
1211036-17	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211036-19	AD	WC_ANIONS_300.0 (Short Hol	11/14/2012	5	5					NA	Added for BatchQC in: 2K14023
1211036-19	AD	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	MS/MSD, Cl, SO4
1211036-21	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211066-01	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211066-03	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211066-09	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211066-11	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211131-04	A	WC_ANIONS_300.0 (Short Hol	11/14/2012	5	5					NA	see versions
1211132-01	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211132-03	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211132-05	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211134-01	C	WC_ANIONS_300.0 (Short Hol	11/14/2012	5	5					NA	

PREPARATION BENCH SHEET

2K14023

Empirical Laboratories, LLC

Printed: 11/27/2012 3:08:36PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K14023-BLK1		QC	11/14/2012	5	5					NA	
2K14023-BS1		QC	11/14/2012	5	5	12J0971		5000		NA	
2K14023-BS2		QC	11/14/2012	5	5	12K0289		5000		NA	
2K14023-DUP1		QC	11/14/2012	5	5		1211036-15			NA	
2K14023-DUP2		QC	11/14/2012	5	5		1211036-19			NA	
2K14023-MS1		QC	11/14/2012	22.5	25	12J0966	1211036-15	2500		NA	
2K14023-MS2		QC	11/14/2012	22.5	25	12J0966	1211036-19	2500		NA	
2K14023-MSD1		QC	11/14/2012	22.5	25	12J0966	1211036-15	2500		NA	
2K14023-MSD2		QC	11/14/2012	22.5	25	12J0966	1211036-19	2500		NA	

Reagents Used:

Standard	Description

PREPARATION BENCH SHEET

2K15006

Empirical Laboratories, LLC

Printed: 11/20/2012 12:46:40PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210282-45	G	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1210282-47	G	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1210282-51	G	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1210282-66	G	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1210282-78	G	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1210282-83	F	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1210282-87	G	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1210292-01	K	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1210292-03	K	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1210292-05	K	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1210292-07	K	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1210292-09	AE	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	MS/MSD
1210292-11	K	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1211071-01	A	WC_AMMONIA_PHENATE_45	11/15/2012	10	100					NA	
1211071-03	A	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1211071-07	A	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1211071-08	A	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1211071-10	A	WC_AMMONIA_PHENATE_45	11/15/2012	10	100					NA	
1211132-03	K	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
1211132-05	K	WC_AMMONIA_PHENATE_45	11/15/2012	100	100					NA	
2K15006-BLK1		QC	11/15/2012	100	100					NA	9.47
2K15006-BS1		QC	11/15/2012	100	100	12J0868		100000		NA	9.57

PREPARATION BENCH SHEET

2K15006

Empirical Laboratories, LLC

Printed: 11/20/2012 12:46:40PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K15006-MS1		QC	11/15/2012	100	100	12A0397	1210292-09	500		NA	9.43
2K15006-MSD1		QC	11/15/2012	100	100	12A0397	1210292-09	500		NA	9.51

Reagents Used:

Standard	Description
12B0874	pH 4.0 Buffer
12B0877	10.00 pH Buffer
12G0038	10 N NaOH
12G0053	1N H2SO4
12G0621	1N NaOH Solution
12I0495	Boric Acid
12I0537	NH3 Sodium Nitroprusside Reagent
12J0158	pH 7.0 Buffer Yellow
12J0895	NH3 Buffer
12K0255	Borate Buffer
12K0542	NH3 Sodium Hypochlorite Reagent
12K0543	NH3 Sodium Phenolate Reagent

PREPARATION BENCH SHEET

2K15019

Empirical Laboratories, LLC

Printed: 11/27/2012 3:10:11PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-01	J	WC_ALKALINITY_2320B	11/15/2012	25	25					NA	carb/bicarb
1211036-03	J	WC_ALKALINITY_2320B	11/15/2012	25	25					NA	carb/bicarb
1211036-05	J	WC_ALKALINITY_2320B	11/15/2012	25	25					NA	carb/bicarb
1211036-19	AC	WC_ALKALINITY_2320B	11/15/2012	25	25					NA	MS/MSD, carb/bicarb
1211036-21	J	WC_ALKALINITY_2320B	11/15/2012	25	25					NA	carb/bicarb
2K15019-BLK1		QC	11/15/2012	25	25					NA	
2K15019-BS1		QC	11/15/2012	5	25	12K0073		5000		NA	
2K15019-MS1		QC	11/15/2012	22.5	25	12K0073	1211036-19	2500		NA	
2K15019-MSD1		QC	11/15/2012	22.5	25	12K0073	1211036-19	2500		NA	

Reagents Used:

Standard	Description
12B0874	pH 4.0 Buffer
12E0017	Alkalinity Sulfuric Acid Solution 0.020 N
12J0158	pH 7.0 Buffer Yellow

PREPARATION BENCH SHEET

2K16021

Empirical Laboratories, LLC

Printed: 11/27/2012 3:11:10PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-01	K	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
1211036-03	K	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
1211036-05	K	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
1211036-07	K	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
1211036-09	K	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
1211036-11	K	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
1211036-13	K	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
1211036-17	I	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
1211036-19	AF	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	MS/MSD
1211036-21	K	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
1211116-01	B	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
1211116-02	B	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
1211118-01	A	WC_AMMONIA_PHENATE_45	11/16/2012	10	100					NA	
1211118-03	A	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
1211118-04	A	WC_AMMONIA_PHENATE_45	11/16/2012	10	100					NA	
1211131-04	A	WC_AMMONIA_PHENATE_45	11/16/2012	10	100					NA	
1211132-01	K	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
1211145-01	A	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
1211145-03	A	WC_AMMONIA_PHENATE_45	11/16/2012	10	100					NA	
1211146-01	K	WC_AMMONIA_PHENATE_45	11/16/2012	100	100					NA	
2K16021-BLK1		QC	11/16/2012	100	100					NA	9.53
2K16021-BS1		QC	11/16/2012	100	100	12J0868		100000		NA	9.49

PREPARATION BENCH SHEET

2K16021

Empirical Laboratories, LLC

Printed: 11/27/2012 3:11:10PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K16021-MS1		QC	11/16/2012	100	100	12A0397	1211036-19	500		NA	9.52
2K16021-MSD1		QC	11/16/2012	100	100	12A0397	1211036-19	500		NA	9.58

Reagents Used:

Standard	Description
12B0669	1N NaOH Solution
12B0874	pH 4.0 Buffer
12B0877	10.00 pH Buffer
12G0038	10 N NaOH
12G0053	1N H2SO4
12I0495	Boric Acid
12I0537	NH3 Sodium Nitroprusside Reagent
12J0158	pH 7.0 Buffer Yellow
12J0895	NH3 Buffer
12K0255	Borate Buffer
12K0543	NH3 Sodium Phenolate Reagent
12K0657	NH3 Sodium Hypochlorite Reagent

PREPARATION BENCH SHEET

2K16035

Empirical Laboratories, LLC

Printed: 11/27/2012 3:12:14PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1210292-01	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1210292-03	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1210292-05	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1210292-07	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1210292-09	AG	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	MS/MSD
1210292-11	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1211036-01	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1211036-03	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1211036-05	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1211036-07	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1211036-09	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1211036-11	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1211036-13	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1211036-15	AG	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	MS/MSD
1211036-17	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1211036-21	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1211071-03	B	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1211071-03RE1	B	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	Added 11/16/2012 by RGB
1211132-01	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1211132-03	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
1211132-05	K	WC_NO3NO2_N_353.2	11/16/2012	4	20					NA	
2K16035-BLK1		QC	11/16/2012	20	20					NA	

PREPARATION BENCH SHEET

2K16035

Empirical Laboratories, LLC

Printed: 11/27/2012 3:12:14PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K16035-BS1		QC	11/16/2012	1	20	12G0617		1000		NA	
2K16035-MS1		QC	11/16/2012	4	20	12J0190	1210292-09	500		NA	
2K16035-MS2		QC	11/16/2012	4	20	12J0190	1211036-15	500		NA	
2K16035-MS3		QC	11/16/2012	4	20	12J0190	1210292-09	500		NA	Added 11/16/2012 by RGB
2K16035-MSD1		QC	11/16/2012	4	20	12J0190	1210292-09	500		NA	
2K16035-MSD2		QC	11/16/2012	4	20	12J0190	1211036-15	500		NA	
2K16035-MSD3		QC	11/16/2012	4	20	12J0190	1210292-09	500		NA	Added 11/16/2012 by RGB

Reagents Used:

Standard	Description
12J0193	NO2/NO3 Sulfanilimide Color Reagent
12K0110	NO2/NO3 Buffer
12K0603	NO3/NO2 Carrier (Acid DI)

PREPARATION BENCH SHEET

2K17002

Empirical Laboratories, LLC

Printed: 11/27/2012 3:13:16PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-19	AG	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	MS/MSD
1211066-01	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211066-03	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211066-05	AG	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	MS/MSD
1211066-07	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211066-09	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211066-11	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211074-01	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211074-03	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211074-05	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211076-01	E	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211076-02	E	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211076-03	E	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211076-04	E	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211076-05	E	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211076-06	E	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211076-07	E	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211134-01	D	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211145-01	A	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
1211146-01	K	WC_NO3NO2_N_353.2	11/17/2012	4	20					NA	
2K17002-BLK1		QC	11/17/2012	20	20					NA	
2K17002-BS1		QC	11/17/2012	1	20	12G0617		1000		NA	

PREPARATION BENCH SHEET

2K17002

Empirical Laboratories, LLC

Printed: 11/27/2012 3:13:16PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K17002-MS1		QC	11/17/2012	4	20	12J0190	1211036-19	500		NA	
2K17002-MS2		QC	11/17/2012	4	20	12J0190	1211066-05	500		NA	
2K17002-MSD1		QC	11/17/2012	4	20	12J0190	1211036-19	500		NA	
2K17002-MSD2		QC	11/17/2012	4	20	12J0190	1211066-05	500		NA	

Reagents Used:

Standard	Description
12K0110	NO2/NO3 Buffer
12K0603	NO3/NO2 Carrier (Acid DI)
12K0617	NO2/NO3 Sulfanilimide Color Reagent

PREPARATION BENCH SHEET

2K19001

Empirical Laboratories, LLC

Printed: 11/27/2012 3:14:17PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-15	AF	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	MS/MSD
1211066-01	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211066-03	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211066-05	AF	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	MS/MSD
1211066-07	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211066-09	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211066-11	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211074-01	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211074-03	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211074-05	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211085-13	B	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211085-14	B	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211085-15	B	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211091-01	J	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211091-03	K	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211131-01	A	WC_AMMONIA_PHENATE_45	11/19/2012	10	100					NA	
1211131-03	A	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211139-01	A	WC_AMMONIA_PHENATE_45	11/19/2012	10	100					NA	
1211139-03	A	WC_AMMONIA_PHENATE_45	11/19/2012	100	100					NA	
1211139-04	A	WC_AMMONIA_PHENATE_45	11/19/2012	10	100					NA	
2K19001-BLK1		QC	11/19/2012	100	100					NA	9.47
2K19001-BLK2		QC	11/19/2012	100	100					NA	

PREPARATION BENCH SHEET

2K19001

Empirical Laboratories, LLC

Printed: 11/27/2012 3:14:17PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
2K19001-BS1		QC	11/19/2012	100	100	12J0868		100000		NA	9.45
2K19001-MS1		QC	11/19/2012	100	100	12A0397	1211036-15	500		NA	9.47
2K19001-MS2		QC	11/19/2012	100	100	12A0397	1211066-05	500		NA	9.55
2K19001-MSD1		QC	11/19/2012	100	100	12A0397	1211036-15	500		NA	9.56
2K19001-MSD2		QC	11/19/2012	100	100	12A0397	1211066-05	500		NA	9.47

Reagents Used:

Standard	Description
12B0874	pH 4.0 Buffer
12B0877	10.00 pH Buffer
12G0038	10 N NaOH
12G0053	1N H2SO4
12G0621	1N NaOH Solution
12I0495	Boric Acid
12I0537	NH3 Sodium Nitroprusside Reagent
12J0158	pH 7.0 Buffer Yellow
12J0895	NH3 Buffer
12K0255	Borate Buffer
12K0543	NH3 Sodium Phenolate Reagent
12K0657	NH3 Sodium Hypochlorite Reagent

PREPARATION BENCH SHEET

2K19023

Empirical Laboratories, LLC

Printed: 11/27/2012 3:15:25PM

Instrument:

Matrix: Water **Prepared using: WC - pNone** **(No Surrogate)**

Lab Number	Cont ID	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	PH	Extraction Comments
1211036-07RE1	J	WC_ANIONS_300.0 (Regular)	11/14/2012	5	5					NA	Cl, SO4
1211076-02RE1	C	WC_ANIONS_300.0 (Regular)	11/19/2012	5	5					NA	Cl SO4/ version set up for SO4 only
1211088-04RE2	G	WC_ANIONS_9056 (Regular)	11/09/2012	5	5					NA	Cl & SO4
1211093-02	C	WC_ANIONS_300.0 (Regular)	11/10/2012	5	5					NA	Cl SO4/ version set up for SO4 only
1211093-03	C	WC_ANIONS_300.0 (Regular)	11/10/2012	5	5					NA	Cl SO4/ version set up for SO4 only
1211093-04	C	WC_ANIONS_300.0 (Regular)	11/10/2012	5	5					NA	Cl SO4/ version set up for SO4 only
1211093-05	C	WC_ANIONS_9056 (Regular)	11/10/2012	5	5					NA	Added for BatchQC in: 2K19023
1211093-05	C	WC_ANIONS_300.0 (Regular)	11/10/2012	5	5					NA	Cl SO4/ version set up for SO4 only
1211093-06	C	WC_ANIONS_300.0 (Regular)	11/10/2012	5	5					NA	Cl SO4/ version set up for SO4 only
1211097-01RE1	G	WC_ANIONS_9056 (Regular)	11/10/2012	5	5					NA	Cl & SO4
2K19023-BLK1		QC	11/19/2012	5	5					NA	
2K19023-BS1		QC	11/19/2012	5	5	12K0289		5000		NA	
2K19023-DUP1		QC	11/19/2012	5	5		1211093-05			NA	
2K19023-MS1		QC	11/19/2012	22.5	25	12J0966	1211093-05	2500		NA	
2K19023-MSD1		QC	11/19/2012	22.5	25	12J0966	1211093-05	2500		NA	

Reagents Used:

Standard	Description

From 2K15025 on 11/19/2012 by ELJ